

SUPPLEMENTARY FIGURE LEGENDS

Supplementary Figure 1. Methotrexate is selective for MSH2 deficiency

A. MSH2 silencing sensitises HeLa cells to methotrexate. Survival curves are shown of HeLa cells stably infected with either a control shRNA or shRNA targeting MSH2 and then continuously exposed to methotrexate for 14 days. Protein lysates were immunoblotted and probed with MSH2 to show reduced expression of MSH2 upon shRNA silencing. B-tubulin was probed as a loading control.

B. MSH2 silencing sensitises MCF7 cells to methotrexate. Survival curves are shown of MCF7 cells carrying either a doxycycline-inducible control shRNA or an inducible shRNA targeting MSH2 and then continuously exposed to methotrexate for 14 days. Protein lysates were immunoblotted and probed with MSH2 to show reduced expression of MSH2 upon doxycycline-induced silencing. B-tubulin was probed as a loading control.

C. Methotrexate is not selective for MLH1 deficiency. Survival curves are shown of the MLH1 deficient HCT116 and MLH1 proficient HCT116+Chr3 cells continuously exposed to methotrexate for 14 days.

Supplementary Figure 2. Methotrexate treatment causes 8-OHdG accumulation upon MSH2 silencing

A. Methotrexate induces oxidative DNA damage in MSH2 silenced cells. Hec59+Chr2 cells were transfected with either control or MSH2 siRNA and then treated with 10 nM methotrexate. After 72 hrs DNA was isolated and analysed for 8-OHdG content using a specific 8-OHdG ELISA assay. Assays were performed in triplicate. Error bars represent standard errors of the mean.

B. Methotrexate induces oxidative DNA damage in cells with inducible MSH2 silencing. MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2, were treated with 10nM methotrexate. After 72 hrs DNA was isolated and analysed for 8-OHdG content using a specific 8-OHdG ELISA assay. Assays were performed in triplicate. Error bars represent standard errors of the mean.

C. Methotrexate causes an accumulation of 8-OHdG lesions over time in cells with inducible MSH2 silencing. MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2, were treated with 10nM methotrexate and DNA analysed for 8-OHdG content over time, as before. A line graph showing relative levels of 8-OHdG content

over time is shown. Assays were performed in triplicate. Error bars represent standard errors of the mean.

D. MSH2 deficiency is associated with increased MYH expression. Hec59 and Hec59+Chr2 cells were treated with either DMSO or 100nM methotrexate. After 72 hr, protein lysates were immunoblotted and probed for MYH, OGG1, MTH1 and β -tubulin (loading control).

Supplementary Figure 3. Treatment with selenomethionine or folic acid rescues the methotrexate selectivity with MSH2 deficiency

A. Selenomethionine rescues methotrexate selectivity in cells with inducible MSH2 silencing. Survival curves are shown from MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2 under continuous exposure to a range of concentrations of methotrexate +/- 1 μ M selenomethionine for 14 days. Error bars represent standard errors of the mean.

B. Selenomethionine reduces 8-OHdG accumulation in cells with inducible MSH2 silencing. MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2 were treated as in (A) and DNA analysed for 8-OHdG content as before. Assays were performed in triplicate. Error bars represent standard errors of the mean.

C. Silencing of DHFR is selective for cells with inducible MSH2 silencing. Survival bar chart is shown of MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2, transfected with siRNA oligonucleotides targeting DHFR. Error bars represent standard errors of the mean.

D. Folic acid rescues methotrexate selectivity in cells with inducible MSH2 silencing. Survival curves are shown of MCF7 cells carrying either a doxycycline-inducible shCtrl or shMSH2 under continuous exposure to a range of concentrations of methotrexate +/- 100 μ M Folic Acid for 14 days. Error bars represent standard errors of the mean.

Supplementary Figure 4. *In vivo* analysis of Hec59 xenograft tumours

A. Micrographs showing TUNEL staining in Hec59 xenograft tumours treated with methotrexate. **a**, Vehicle treated Hec59 tumour. **b**, Methotrexate treated Hec59 tumour

showing increased number of apoptotic cells. Arrows indicate TUNEL-positive cells. Original magnification A-D x40.

B. Photomicrographs of H&E stained sections of Hec59 xenograft tumours treated with methotrexate. **a**, Vehicle treated Hec59 tumour. **b**, Methotrexate treated Hec59 tumour showing increased levels of necrosis. Arrows indicate necrosis as defined by nuclear fragmentation, loss of cell borders, presence of cell debris, karyorexis and cystification. (Haematoxylin and eosin; original magnification A-D E x100)

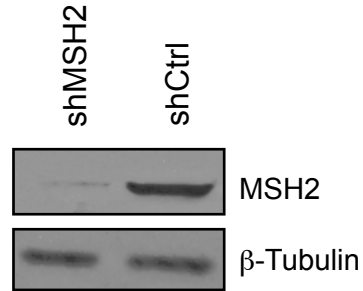
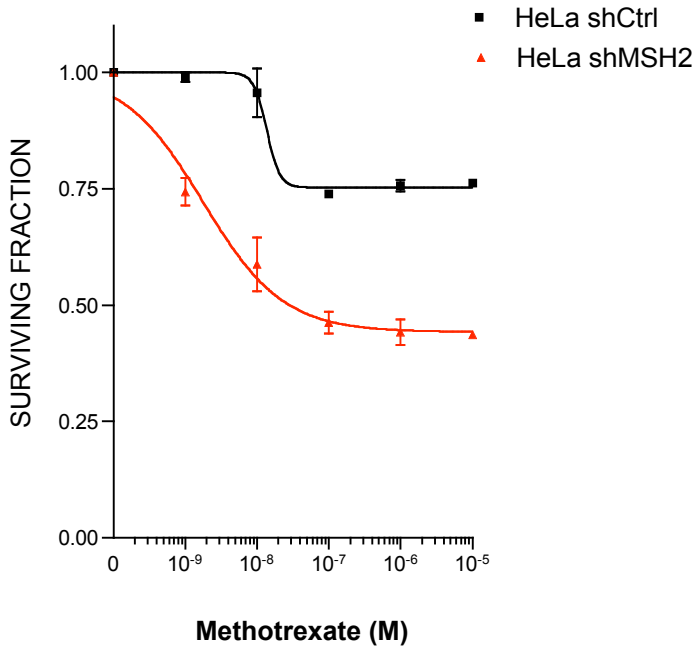
Supplementary Table 1

List of small molecule inhibitors and corresponding Log₂ Surviving Fractions for Hec59 Vs. Hec59+Chr2 cells

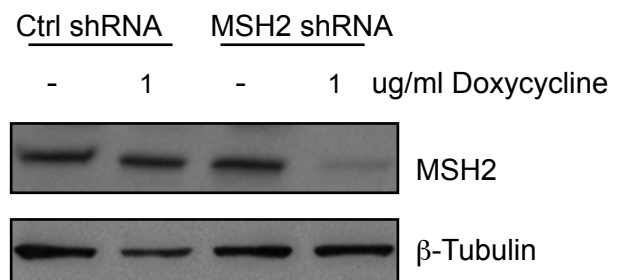
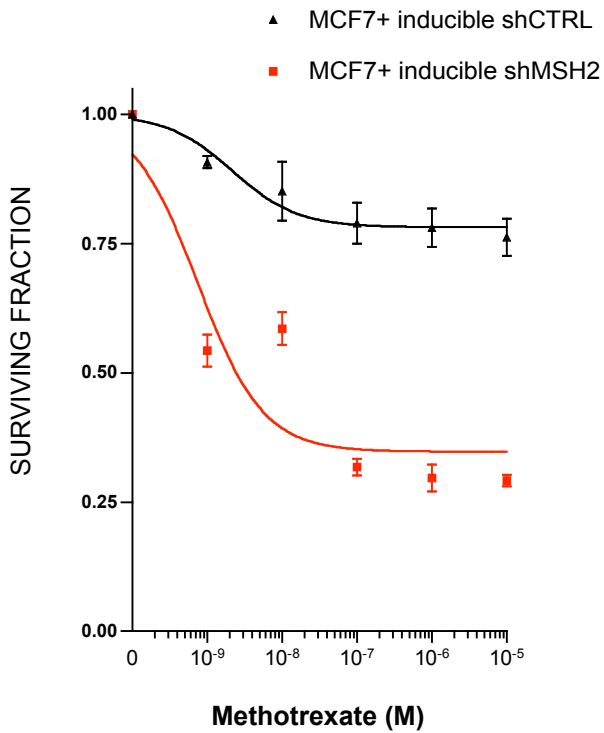
Hec59 and Hec59+Chr2 cells were screened using a library of 1120 compounds at an average compound concentration in media of 0.1 mM. The list represents the effect of each compound expressed as a log₂ surviving fraction, compared to DMSO-treated cells. To identify MSH2-selective effects, log₂ surviving fractions were compared from the two cell lines. Compounds highlighted in red are oxidative damage inducing agents.

SUPPLEMENTARY FIGURE 1

A

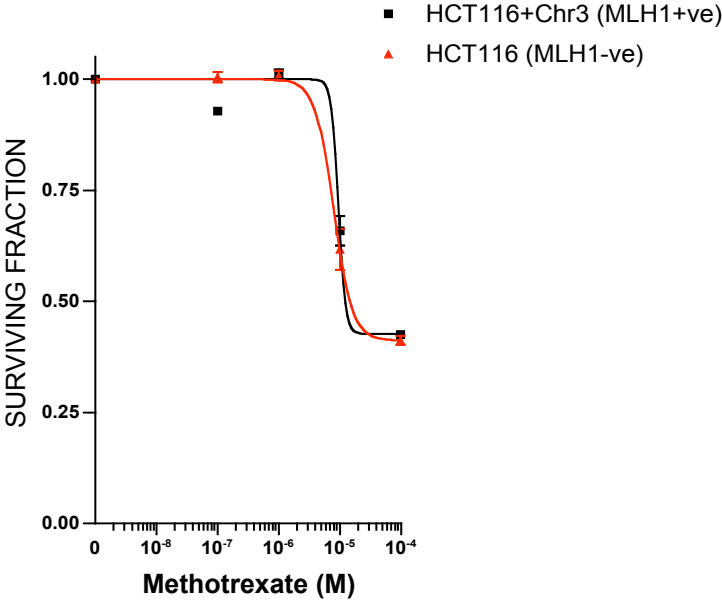


B



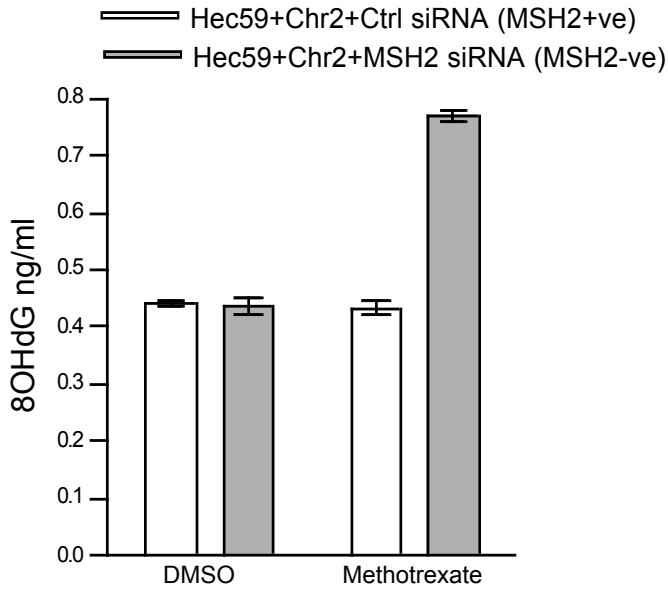
SUPPLEMENTARY FIGURE 1

C

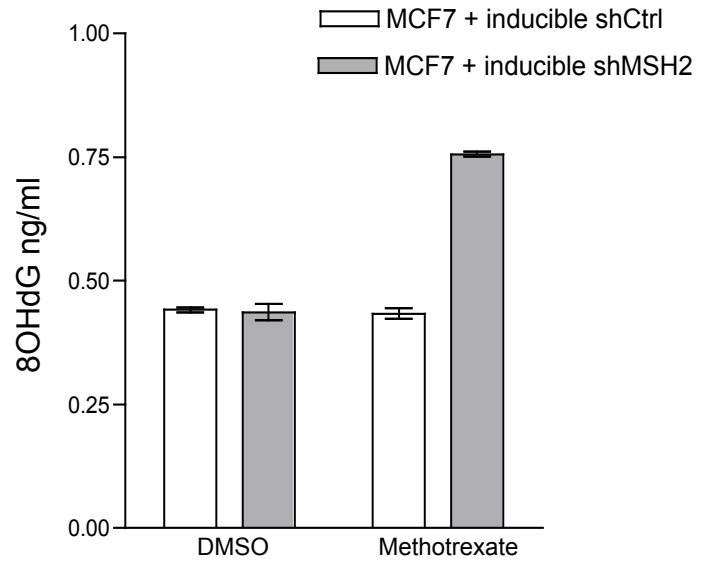


SUPPLEMENTARY FIGURE 2

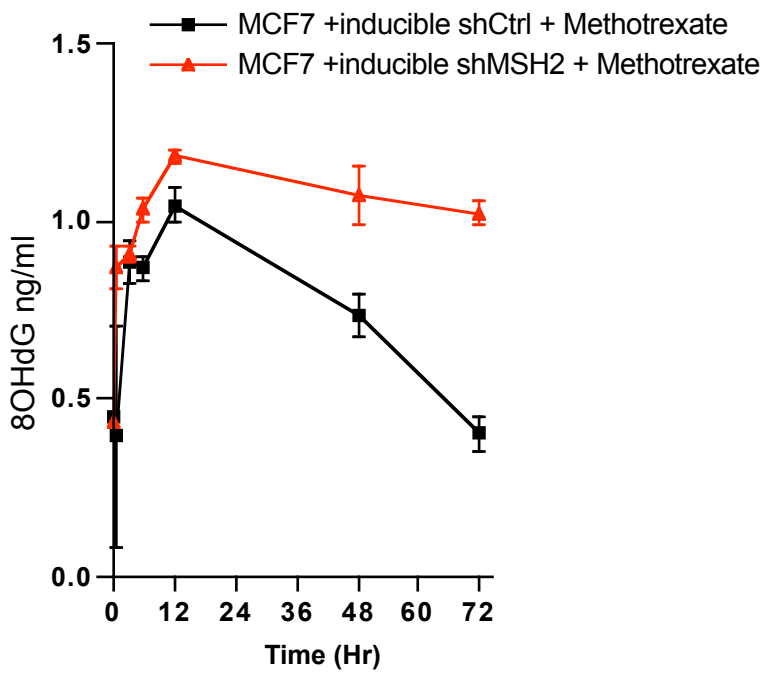
A



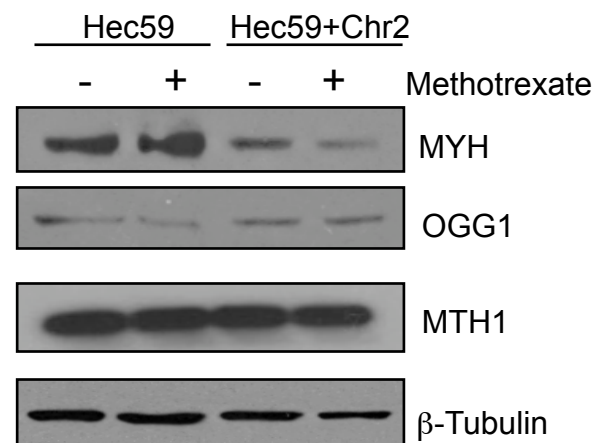
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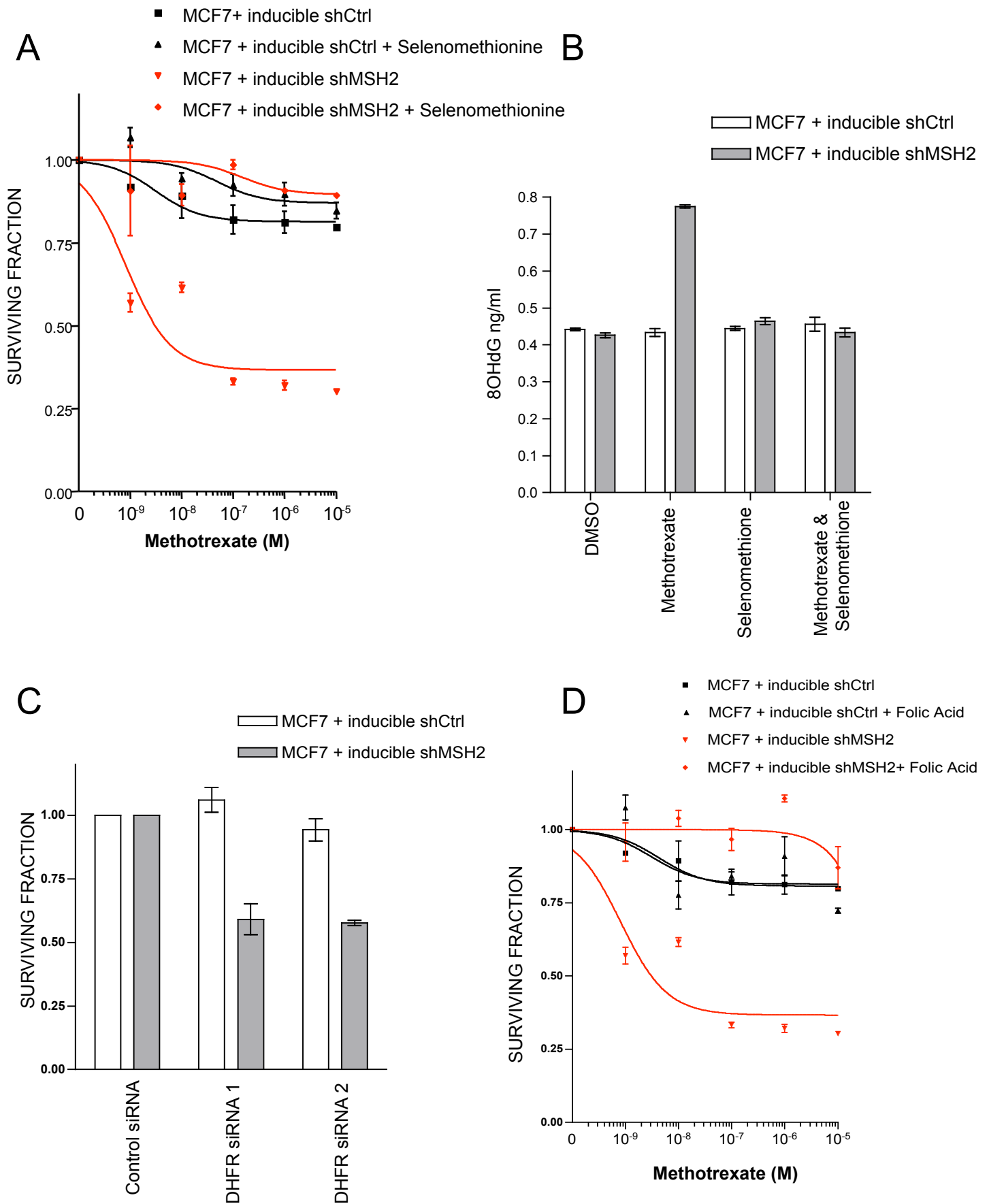
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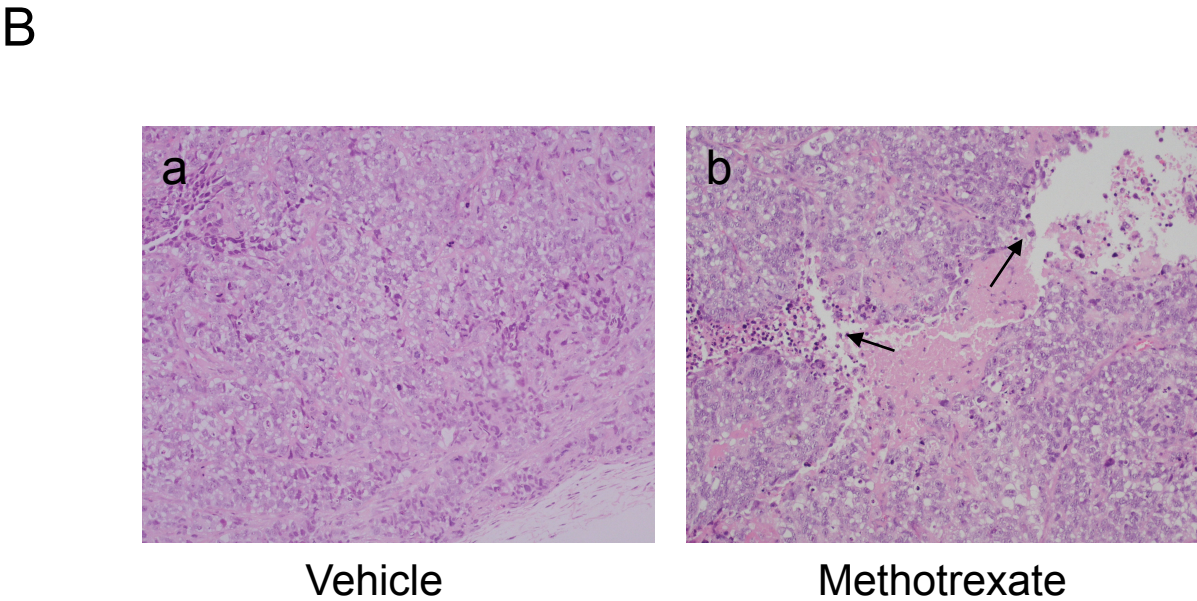
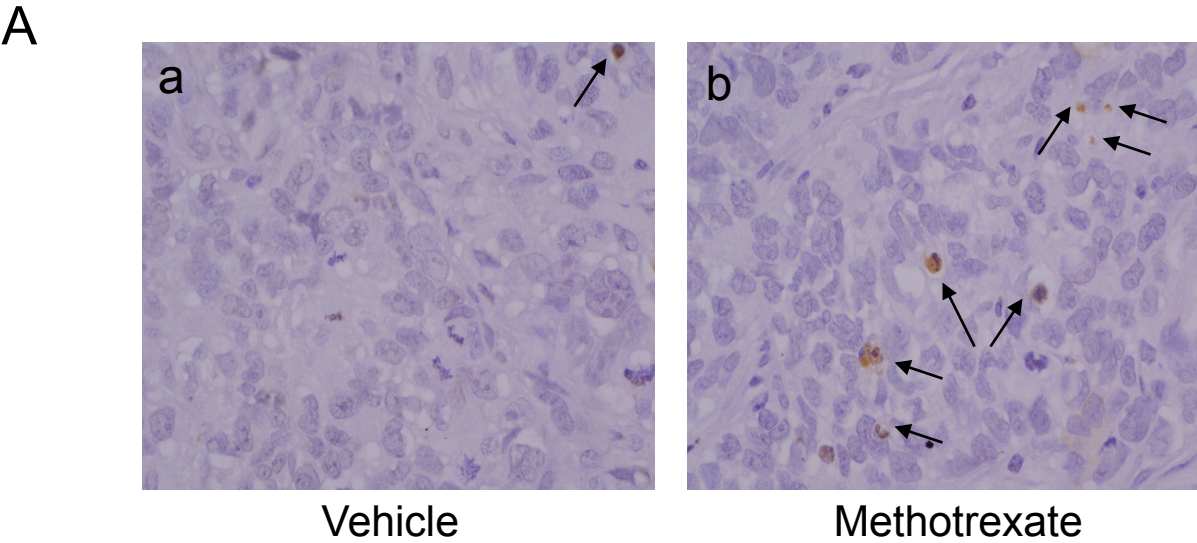
D



SUPPLEMENTARY FIGURE 3



SUPPLEMENTARY FIGURE 4



SUPPLEMENTARY TABLE 1.

Log2 Surviving Fraction HEC59 vs. Hec59+chr2	Chemical Name	Known oxidising agent *
-24.41717148	Parthenolide	*
-23.43154235	Ciclopirox ethanolamine	
-20.64664096	Daunorubicin hydrochloride	*
-20.62000211	Thiostrepton	
-18.90636384	Nifuroxazide	
-16.29396419	Atovaquone	
-14.93778693	Pentamidine isethionate	
-13.58458439	Mycophenolic acid	
-8.69574725	Methotrexate	*
-8.210040032	Metixene hydrochloride	
-5.402513746	Ibenguane sulfate	
-5.033834608	Menadione	*
-4.984552115	Lovastatin	
-4.776396368	Artemisinin	
-4.712837951	Quercetine dihydrate	
-4.7004722	Gentamicine sulfate	
-4.496057998	Pimozide	
-4.458822429	Trifluoperazine dihydrochloride	
-3.917113271	Thiethylperazine malate	
-3.764620028	Mefloquine hydrochloride	
-3.704662264	Clofilium tosylate	
-3.693951445	Sertaconazole nitrate	
-3.563887939	Perphenazine	
-3.550897946	Budesonide	
	Quinacrine dihydrochloride dihydrate	
-3.531210678	GBR 12909 dihydrochloride	
-3.49343283	Oxethazaine	
-3.319551356	Resveratrol	
-3.188920424	Pyrimethamine	
-3.117869038	Fluphenazine dihydrochloride	
-3.098604208	Tenoxicam	
-3.047932665	Dicyclomine hydrochloride	
-2.868202202	Tiabendazole	
-2.826780301	Meclozine dihydrochloride	
-2.805910302	Clotrimazole	
-2.777389753	Atracurium besylate	
-2.733213843	Isoflupredone acetate	
-2.693797698	Biperiden hydrochloride	
-2.654329319	Triflusal	
-2.649005423	Amethopterin (R,S)	
-2.582556408	Metformin hydrochloride	
-2.56816676	Miconazole	
-2.55770369	Fenofibrate	
-2.462321699	Phenindione	
-2.440305676	Allantoin	
-2.398377304	Amiloride hydrochloride dihydrate	
-2.290024048	Molsidomine	
-2.286803871	Flunarizine dihydrochloride	
-2.277356029	Butoconazole nitrate	
-2.270447611	Chloroquine diphosphate	
-2.265154474	Dibucaine	
-2.254837419	Clorsulon	
-2.231171329	Tetramisole hydrochloride	
-2.224489536	Metaproterenol sulfate, orciprenaline sulfate	
-2.216376085	Amprolium hydrochloride	
-2.17828924	Azaguanine-8	
-2.174890595	Prochlorperazine dimaleate	
-2.167715814	Acetazolamide	
-2.12949747		

-2.08443831

-2.083303839
-2.080124046
-2.074627133
-2.068451001
-2.056667819
-2.054183135
-2.053231828
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Pyrazinamide
Isoquinoline, 6,7-dimethoxy-1-
methyl-1,2,3,4-tetrahydro,
hydrochloride
Bufexamac
Tamoxifen citrate
Tiaprofenic acid
Thioridazine hydrochloride
Ceftazidime pentahydrate
Cetirizine dihydrochloride
Pirenperone
Amyleine hydrochloride
Heliotrine
Pheniramine maleate
Betahistine mesylate
Cinnarizine
Sulfathiazole
Azathymine, 6
Clemastine fumarate
Mifepristone
Hydrochlorothiazide
Tolnaftate
Omeprazole
Vitamin K2
Vigabatrin
Levodopa
Lidocaine hydrochloride
Acebutolol hydrochloride
Piperacetazine
Antipyrine, 4-hydroxy
Tobramycin
Nortriptyline hydrochloride
Flupentixol dihydrochloride cis-(Z)
Benoxinate hydrochloride
Phenacetin
6-Furfurylaminopurine
Sulfaguanidine
Probenecid
Norethynodrel
Sulfacetamide sodic hydrate
Ivermectin
Dosulepin hydrochloride
Iohexol
Hydroflumethiazide
Midecamycin
Mesoridazine besylate
Dyclonine hydrochloride
Erythromycin
Lynestrenol
Triamterene
Oxyphenbutazone
Oxybutynin chloride
Heptaminol hydrochloride
Methiothepin maleate
Sisomicin sulfate
Panthenol (D)
Trimetazidine dihydrochloride
Trimethadione
Benzonatate
Cyproheptadine hydrochloride
Cyclizine hydrochloride
Ethacrynic acid
Niclosamide

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Nystatine
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Cimetidine
Isoconazole
Paclitaxel
Cyclosporin A
Estradiol-17 beta
Naproxen
Avermectin B1
Astemizole
Fendiline hydrochloride
Oleandomycin phosphate
Ticlopidine hydrochloride
Kynurenine, 3-hydroxy (R,S)
Dimenhydrinate
Thioguanosine
Sulindac
Tomatine
Diphenidol hydrochloride
Econazole nitrate
Epirizole
Niflumic acid
(S)-(-)-Cycloserine
Bumetanide
Moricizine hydrochloride
Sulfadiazine
Antipyrine
Coralyne chloride hydrate
Diprophylline
Ethamivan
Prednisolone
Terconazole
Tolazoline hydrochloride
Methylprednisolone, 6-alpha
Pergolide mesylate
Chenodiol
Trimethobenzamide hydrochloride
Pregnenolone
Glipizide
Dapsone
Minoxidil
Glutethimide, para-amino
Propafenone hydrochloride
Flurandrenolide
Austrocine
Spironolactone
Josamycin
Naftifine hydrochloride
Tetrahydrozoline hydrochloride
Trichlorfon
Idoxuridine
Lysergol
Clomipramine hydrochloride
Flavoxate hydrochloride
Pirenzepine dihydrochloride
Disulfiram
Vincamine
Penbutolol sulfate
Quinethazone
Cortisone
Isoxicam
Amityptiline hydrochloride
Diphemanil methylsulfate

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Minaprine dihydrochloride
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DO 897/99
Perhexiline maleate
Isoxsuprine hydrochloride
Labetalol hydrochloride
Mebeverine hydrochloride
Prednisone
Foliosidine
Cefotaxime sodium salt
Piretanide
Suxibuzone
Myosmine
Myricetin
Moxisylyte hydrochloride
Delsoline
Lactobionic acid
Lincomycin hydrochloride
Dizocilpine maleate
Diphenhydramine hydrochloride
Imipenem
Estriol
Khellin
Flunisolide
Sulfinpyrazone
Danazol
Diethylcarbamazine citrate
Trihexyphenidyl-D,L Hydrochloride
Carbamazepine
Chlorpheniramine maleate
Troleandomycin
Albendazole
Anabasine
Metolazone
Doxepin hydrochloride
Quinidine hydrochloride
monohydrate
Fillalbin
Ethambutol dihydrochloride
Bupropion hydrochloride
Hexamethonium dibromide
dihydrate
Meticrane
Gallamine triethiodide
Dexamethasone acetate
Chlorhexidine
Hycanthon
Ceforanide
Graveoline
(-)-Isoproterenol hydrochloride
Retinoic acid
Estropipate
Muramic acid, N-acetyl
Fluorouracil chloride
Ginkgolide A
Verapamil hydrochloride
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Chlorothiazide
Naloxone hydrochloride
Ampicillin trihydrate
Mepenzolate bromide
Disopyramide
Metrizamide
Selegiline hydrochloride

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Bepridil hydrochloride
Trifluridine
Fusaric acid
Cefaclor
Cyclobenzaprine hydrochloride
Betonicine
Alprenolol hydrochloride
Enalapril maleate
Lumicolchicine gamma
Etomidate
Triprolidine hydrochloride
Lycorine hydrochloride
Sulfaphenazole
Naringin hydrate
Piracetam
Dihydrostreptomycin sulfate
Naphazoline hydrochloride
Telenzepine dihydrochloride
Tridihexethyl chloride
Guanethidine sulfate
Karakoline
Dropropizine (R,S)
Melatonin
Puromycin dihydrochloride
Picotamide monohydrate
Ethinisterone
Lisinopril
Fludrocortisone acetate
Zimelidine dihydrochloride monohydrate
Metanephrine hydrochloride DL
Pantothenic acid calcium salt monohydrate
Piperidolate hydrochloride
Sulfamerazine
Bromperidol
Hydroxyzine dihydrochloride
Epicatechin(-)
Triamcinolone
Parbendazole
Delcorine
Sulpiride
Gelsemine
Dydrogesterone
Benfotiamine
Dinoprost trometamol
beta- Belladonnine dichloroethylate
Doxylamine succinate
Ricinine
Cefixime
Niridazole
Napelline
Diflunisal
Pempidine tartrate
Acetylsalicylsalicylic acid
Dantrolene sodium salt
Clonidine hydrochloride
Spaglumic acid
Procaine hydrochloride
Ungerine nitrate
Ifenprodil tartrate
Picrotoxinin
Citalopram Hydrobromide
Pyrilamine maleate

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Meclocycline sulfosalicylate
Biotin
Bacampicillin hydrochloride
Edrophonium chloride
Isotretinoin
Norethindrone
Carbimazole
Mexiletine hydrochloride
Deltaline
Gabazine
Metronidazole
N-Acetyl-DL-homocysteine
Thiolactone
Bromopride
Homatropine hydrobromide (R,S)
Naltrexone hydrochloride dihydrate
Hydroxytacrine maleate (R,S)
Vitexin
Sertraline
Cefadroxil
Thiamphenicol
Sulmazole
Methoxamine hydrochloride
Mecamylamine hydrochloride
Rifabutin
Verteporfin
Tolazamide
Ciprofloxacin hydrochloride
Ursolic acid
Indomethacin
Nalbuphine hydrochloride
Cyanocobalamin
Acenocoumarol
Propylthiouracil
(-)-Quinpirole hydrochloride
Bromocryptine mesylate
Glibenclamide
Betazole hydrochloride
Dipyridamole
Captopril
Chlorprothixene hydrochloride
Nicergoline
Repaglinide
Succinylsulfathiazole
Brompheniramine maleate
Butirosin disulfate salt
Glimepiride
Azathioprine
Gossypol
Guanabenz acetate
Testosterone propionate
Oxaprozin
Chlorogenic acid
Canrenoic acid potassium salt
Cefotiam hydrochloride
Etanidazole
Fluorometholone
Mesalamine
Neostigmine bromide
Pepstatin A
Corticosterone
Lisuride (S)(-)
Droperidol

0.134055274
0.134577632
0.136762285
0.138047017
0.138773652
0.141407904
0.141433532
0.141652423
0.142869217
0.143449878
0.143880876
0.145479504
0.145739536
0.146520225
0.148123591
0.148217557
0.149895148
0.150060513
0.151544873
0.152187888
0.155213054
0.158007575
0.158015971
0.161080715
0.161106085
0.1613228
0.162092946

0.162285294
0.162596909
0.162889466

0.164519391
0.165169902
0.166485656

0.16764959
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0.168725624
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0.169497057
0.169573013
0.169927633
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0.173517005
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0.174975568
0.17549189
0.175580825
0.176514464
0.176689564
0.17790468
0.178107119
0.179286299
0.180372232
0.180696506
0.181139142
0.181695512
0.183070896
0.183079732
0.18415374

Ambroxol hydrochloride
Promazine hydrochloride
Mephenytoin
Tetracycline hydrochloride
Beta-Escin
Progesterone
Cefotetan
Leucomisine
Fenoterol hydrobromide
Nifedipine
Hydrocortisone base
Cyproterone acetate
Spiperone
Mefenamic acid
Aspartic acid, N-acetyl (R,S)
Loperamide hydrochloride
Saquinavir mesylate
(S)-propranolol hydrochloride
Mianserine hydrochloride
Betulinic acid
Dehydrocholic acid
Nomifensine maleate
Clocortolone pivalate
Acemetacin
Antazoline hydrochloride
Ascorbic acid
Norcyclobenzaprine
Adenosine 5'-monophosphate monohydrate
Nicardipine hydrochloride
Bupivacaine hydrochloride
Amodiaquin dihydrochloride dihydrate
Dicloxacillin sodium salt
Prednicarbate
(1-[4-Chlorophenyl]phenyl-methyl)-4-methylpiperazine
Androsterone
Carteolol hydrochloride
Diperodon hydrochloride
Praziquantel
Deptropine citrate
(+,-)-Synephrine
Sulfadoxine
Debrisoquin sulfate
Carbarsone
D-cycloserine
Dorzolamide hydrochloride
Carcinine
Ritodrine hydrochloride
Haloperidol
Pilocarpine nitrate
Nialamide
Phensuximide
Dequalinium dichloride
Chicago sky blue 6B
Adiphenine hydrochloride
Carbetapentane citrate
Morantel tartrate
Brinzolamide
Buflomedil hydrochloride
Cyclopentolate hydrochloride
Bisacodyl
Acacetin

0.18425944
0.184406044
0.184497488
0.184551883
0.184900479
0.185439296
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0.186771679
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0.188648821
0.188973186

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0.195099391

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0.21290715
0.215370447

0.215784484
0.216264813
0.216345535
0.216934676
0.217012124
0.217178604
0.217482119

2-Chloropyrazine
Sulfisoxazole
Azacyclonol
Famotidine
Imidurea
Dobutamine hydrochloride
Methyl benzethonium chloride
Lansoprazole
Clebopride maleate
Iopanoic acid
Netilmicin sulfate
Mebhydroline 1,5-
naphthalenedisulfonate
Minocycline hydrochloride
Sulfabenzamide
S(-)-Eticlopride hydrochloride
Quinic acid
Fipexide hydrochloride
Zaprinast
Halcinonide
Practolol
Benzethonium chloride
(-)-Adenosine 3',5'-cyclic
monophosphate
Cefmetazole sodium salt
Bethanechol chloride
Betulin
Ondansetron Hydrochloride
Imipramine hydrochloride
Trazodone hydrochloride
Thiopropazine dimesylate
N6-methyladenosine
Methoxy-8-psoralen
Cyclacillin
Benzocaine
Calciferol
Meropenem
Cefoperazone dihydrate
Guanfacine hydrochloride
alpha-Santonin
Tremorine dihydrochloride
Oxprenolol hydrochloride
Homosalate
Clofazimine
Adamantamine fumarate
Desipramine hydrochloride
Procarbazine hydrochloride
Loracarbef
Clopamide
Ethotoin
Cephalosporanic acid, 7-amino
Enoxacin
Benfluorex hydrochloride
Clozapine
Dipyron
Cefepime hydrochloride
R(-) Apomorphine hydrochloride
hemihydrate
Scopolamin-N-oxide hydrobromide
Methantheline bromide
Clorgyline hydrochloride
Amidopyrine
Suloctidil
Epiandrosterone

0.217501519
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0.218451677
0.218815528
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0.219593631
0.219933631
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0.22440394
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0.226463221
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0.232864601
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0.233767185
0.235040143
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0.235987762
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0.241379215

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0.246200963
0.246481038
0.247021027
0.247632328
0.249413729

0.250544007
0.252645598
0.252972878
0.253395748
0.253493703

Vinpocetine
Methyldopa (L,-)
Meprylcaine hydrochloride
Helveticoside
Dubinidine
Pinacidil
Benzylpenicillin sodium
Furosemide
Amoxapine
Pimethixene maleate
Ioxaglic acid
Propoxycaine hydrochloride
Hesperidin
Azaperone
Acyclovir
Benzbromarone
Condolphine
Chlormezanone
Oxantel pamoate
Glycocholic acid
Hemicholinium bromide
Ramipril
Bambuterol hydrochloride
Cotinine (-)
Arecoline hydrobromide
Oxytetracycline dihydrate
Probucol
Cephalexin monohydrate
Tropine
Piperine
Bisoprolol fumarate
Clenbuterol hydrochloride
Amoxicillin
Triflupromazine hydrochloride
Hesperetin
Chlorpropamide
Tocopherol (R,S)
Streptomycin sulfate
Cholecalciferol
SR-95639A
Methylethergometrine maleate
Ticarcillin sodium
Pivmecillinam hydrochloride
Mimosine
Phenylpropanolamine
hydrochloride
Cefalonium
Kaempferol
Zidovudine, AZT
Pindolol
Levopropoxyphene napsylate
Amikacin hydrate
Evoxine
Fenbendazole
Carisoprodol
Dihydroergotamine tartrate
Milrinone
Procainamide hydrochloride
Dextromethorphan hydrobromide
monohydrate
Ketotifen fumarate
Domperidone maleate
Naringenine
Diphenylpyraline hydrochloride

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*

0.253735694
0.254125243
0.254255728
0.254339488
0.254592708
0.255100319
0.255642035
0.256374318
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0.280620847
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0.282765192
0.284140796
0.284292468
0.28431032

Terbutaline hemisulfate
Natamycin
Chrysene-1,4-quinone
Zuclopenthixol hydrochloride
Neomycin sulfate
Monensin sodium salt
Zoxazolamine
Chlortetracycline hydrochloride
Baclofen (R,S)
(-)-Eseroline fumarate salt
Nitrarine dihydrochloride
Nafronyl oxalate
Dehydroisoandrosterone 3-acetate
Chlorotrianisene
3-alpha-Hydroxy-5-beta-androstan-17-one
Proadifen hydrochloride
Ciprofibrate
Ronidazole
Methapyrilene hydrochloride
Halofantrine hydrochloride
Propidium iodide
Todalazine hydrochloride
Diazoxide
Methyldopate hydrochloride
Buspirone hydrochloride
Homochlorcyclizine dihydrochloride
Tacrine hydrochloride hydrate
Moroxidine hydrochloride
Cephalothin sodium salt
Alfuzosin hydrochloride
Benzydamine hydrochloride
Raloxifene hydrochloride
Bezafibrate
Tribenoside
Adrenosterone
Metergoline
Idazoxan hydrochloride
Sulconazole nitrate
Betamethasone
Ketanserin tartrate hydrate
Epitiostanol
(R)-Propranolol hydrochloride
Isosorbide dinitrate
Chlorthalidone
Loxapine succinate
Drofenine hydrochloride
Trioxsalen
Diltiazem hydrochloride
Tyloxapol
Sulfachloropyridazine
Amphotericin B
Esculetin
Clindamycin hydrochloride
Doxycycline hydrochloride
Betaxolol hydrochloride
Hexestrol
Pramoxine hydrochloride
Phentolamine hydrochloride
Meptazinol hydrochloride
Ethamsylate
Flurbiprofen
Hippeastrine hydrobromide

0.284845779
0.285489421
0.286186437
0.287267567
0.287305942
0.287481926
0.289575821
0.289922121
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0.316237109
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0.316678054
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0.32005045
0.320759874
0.321860502
0.321932482
0.322363302
0.322732428
0.322891516
0.323420109

Antimycin A
Griseofulvin
Skimmianine
Harmine hydrochloride
Nilutamide
(d,l)-Tetrahydroberberine
Thyroxine (L)
Deoxycorticosterone
Nizatidine
Zalcitabine
Nalidixic acid sodium salt hydrate
Propofol
Finasteride
Cloperastine hydrochloride
Fursultiamine Hydrochloride
Nitrocaramiphen hydrochloride
Pipemidic acid
(+) -Levobunolol hydrochloride
Proparacaine hydrochloride
Iodipamide
Merbromin
Cyclopenthiiazide
Nimodipine
Apramycin
Viomycin sulfate
Methocarbamol
Flucytosine
Amiodarone hydrochloride
Kanamycin A sulfate
Rolipram
Ketorolac tromethamine
Alfaxalone
Oxybenzone
Metaraminol bitartrate
Etilefrine hydrochloride
Felodipine
S(-)-terguride hydrogen maleate
Bretylum tosylate
Primidone
Gabexate mesilate
Lanatoside C
Rilmenidine hemifumarate
Alverine citrate salt
Benserazide hydrochloride
Thioperamide maleate
(+)-Isoproterenol (+)-bitartrate salt
Aminopurine, 6-benzyl
Fusidic acid sodium salt
Pralidoxime chloride
(±)-Nipecotic acid
Alprostadil
Maprotiline hydrochloride
Bephenium hydroxynaphthoate
Thonzonium bromide
Megestrol acetate
Paroxetine Hydrochloride
S-(+)-ibuprofen
Decamethonium bromide
Ketoconazole
Talampicillin hydrochloride
Lasalocid sodium salt
Azapropazone
Pentetic acid

0.323802329
0.324120343
0.325978885
0.328041911
0.328937197
0.329246073
0.33114566
0.332247945
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Alfadolone acetate
Reserpinic acid hydrochloride
Ribavirin
Scopoletin
Sotalol hydrochloride
Memantine Hydrochloride
Xamoterol hemifumarate
Cloxacillin sodium salt
(-)-Levobunolol hydrochloride
Fluticasone propionate
Carbenoxolone disodium salt
Crotamiton
Ethinodiol diacetate
Caffeic acid
Ozagrel hydrochloride
Cefuroxime sodium salt
Novobiocin sodium salt
Scopolamine hydrochloride
Fenbufen
Tolbutamide
Dimaprit dihydrochloride
Prilocaine hydrochloride
Salbutamol
Mefexamide hydrochloride
Fenspiride hydrochloride
Arbutin
(+,-)-Octopamine hydrochloride
Hydrastinine hydrochloride
Orphenadrine hydrochloride
Scoulerine
Nimesulide
Paromomycin sulfate
Ajmaline
Harpagoside
Timolol maleate salt
Pivampicillin
Estrone
Florfenicol
Ajmalicine hydrochloride
Ioversol
Isometheptene mucate
Gliquidone
Aceclofenac
Lymecycline
Remoxipride Hydrochloride
Mephenesin
Trapidil
Sanguinarine
THIP Hydrochloride
Iproniazide phosphate
Enilconazole
Ketoprofen
Proglumide
Tiapride hydrochloride
Diloxanide furoate
Acetaminophen
Aztreonam
Benzathine benzylpenicillin
Berberine chloride
Propantheline bromide
Moxonidine
Pargyline hydrochloride
Pentolinium bitartrate

0.381890781
0.382713779
0.384181841
0.384517094
0.384934883
0.386227491
0.389648606
0.391209581
0.39327567
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0.472094714

Articaine hydrochloride
Capsaicin
Metoprolol-(+,-) (+)-tartrate salt
Solasodine
Indapamide
Terazosin hydrochloride
Aconitine
Camptothecine (S,+)
Letrozole
Asiaticoside
Pyrantel tartrate
Glafenine hydrochloride
Pirlindole mesylate
6-Hydroxytryptinone
Nomegestrol acetate
Beta-sistosterol
Benperidol
Tropicamide
Altretamine
Tiletamine hydrochloride
Oxalamine citrate salt
Theobromine
Pronethalol hydrochloride
Iopamidol
Monocrotaline
Torsemide
Alclometasone dipropionate
Theophylline monohydrate
Flumequine
Hymecromone
Iocetamic acid
Gemfibrozil
Bacitracin
Tracazolate hydrochloride
(-)-MK 801 hydrogen maleate
Lorglumide sodium salt
Sulfaquinoxaline sodium salt
Ifosfamide
Cefamandole sodium salt
Lomefloxacin hydrochloride
Thiamine hydrochloride
Nadide
Pentoxifylline
Trimipramine maleate salt
Risperidone
Roxarsone
Phthalylsulfathiazole
Nitrendipine
(S)-(-)-Atenolol
Pizotifen malate
Protriptyline hydrochloride
Molindone hydrochloride
Benzthiazide
Clemizole hydrochloride
Meclofenamic acid sodium salt
monohydrate
Oxolinic acid
Nifenazone
Gabapentin
Nifurtimox
Sulfamethoxazole
Beclomethasone dipropionate
Pancuronium bromide

0.47364486
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0.500577604
0.508113973
0.510128794

0.511814086
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0.608428753
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0.610600955
0.613608061
0.623028875
0.623393435
0.62404869
0.624568205
0.624939966
0.629843619

Methylatropine nitrate
Ellipticine
Urosiol
Fluocinonide
Harmine hydrochloride
Mafenide hydrochloride
Iopromide
Metoclopramide
monohydrochloride
Metyrapone
Tocainide hydrochloride
Urapidil hydrochloride
Liothyronine
Streptozotocin
Clomiphene citrate (Z,E)
Chloramphenicol
Phenoxybenzamine hydrochloride
Aminocaproic acid
Hydroquinine hydrobromide
hydrate
Dioxybenzone
N-Acetyl-L-leucine
Meglumine
Palmatine chloride
Fluvoxamine maleate
Proguanil hydrochloride
Bemegride
Trimeprazine tartrate
Proscillaridin A
3-Acetamidocoumarin
Denatonium benzoate
Arcaine sulfate
Strophantine octahydrate
(R) -Naproxen sodium salt
Tetrahydroxy-1,4-quinone
monohydrate
Alexidine dihydrochloride
Alcuronium chloride
Phenformin hydrochloride
Iodixanol
Clobetasol propionate
Ornidazole
Salmeterol
Levamisole hydrochloride
Guaifenesin
Sulfamethazine sodium salt
Hexylcaine hydrochloride
Piroxicam
Dipivefrin hydrochloride
Epivincamine
Tranlycypromine hydrochloride
Isradipine
Proxiphylline
Laudanosine (R,S)
Lobeline alpha (-) hydrochloride
Roxithromycin
Flutamide
Etofilline
Ebselen
Levocabastine hydrochloride
Vidarabine
Trichlormethiazide
Yohimbic acid monohydrate
Nefopam hydrochloride

0.630292942
0.633585636
0.636689208
0.639869141
0.641241319
0.642305048
0.648954431
0.652515089
0.656235315
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0.660487399
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0.71168585
0.712683915
0.713188359
0.715046943
0.716101809
0.716931154
0.717799875
0.72257789
0.723561517
0.725721849
0.727022937
0.727377023
0.728938514
0.729261575
0.72941805
0.729993746
0.731029419
0.731776603
0.732639241
0.733669377
0.735212164

Pyrvinium pamoate
2-Aminobenzenesulfonamide
Esculin Hydrate
Rolitetracycline
Kawain
Aminohippuric acid
Tolfenamic acid
Chelidone (+)
Trimethoprim
Cisapride
Diclofenac sodium
Procyclidine hydrochloride
Xylometazoline hydrochloride
Methylhydantoin-5-(D)
Butacaine
Bendroflumethiazide
Bucladesine sodium salt
Felbinac
(-)-Cinchonidine
Gibberellic acid
Cefsulodin sodium salt
Clofibrilic acid
Thalidomide
Piperacillin sodium salt
Niacin
Medrysone
Isoniazid
Sulfamonomethoxine
Folinic acid calcium salt
Mebendazole
Lobelanidine hydrochloride
Securinine
Chloropyramine hydrochloride
Hydralazine hydrochloride
3-Acetylcoumarin
Retrorsine
Chlorphensin carbamate
Trigonelline
Clidinium bromide
Phenelzine sulfate
Oxymetazoline hydrochloride
Digoxigenin
Quipazine dimaleate salt
Carbachol
Etidronic acid, disodium salt
Guanadrel sulfate
Prazosin hydrochloride
Pyrihydione
Ethosuximide
Atractyloside potassium salt
Nabumetone
Calycanthine
Thiorphan
Levonordefrin
Sulfapyridine
Ganciclovir
Convolamine hydrochloride
Catechin-(+,-) hydrate
Nisoxetine hydrochloride
Piribedil hydrochloride
Propranolol hydrochloride
Meclofenoxate hydrochloride
Furazolidone

0.735686241
0.735797204
0.737126701
0.73774511
0.739220278
0.745733307
0.748853239
0.749221755
0.750157518
0.751529068
0.75243408
0.752585864
0.75438112
0.755952421
0.756486394
0.763087447
0.763191529
0.76689221
0.767704808
0.769422276
0.772425463
0.773339647
0.777706389
0.779317341
0.779623335
0.780621178
0.784872196
0.786738268
0.788594
0.789580915
0.789719864
0.789842517
0.793059578
0.794261874
0.794662206
0.795070617
0.796040345
0.796280756
0.797628475
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0.800138265
0.80047986
0.800743413
0.801354233
0.805145037
0.806552291
0.810348989
0.813749759
0.815702744
0.815705607
0.815903235
0.816129102
0.821524208
0.823330483
0.823614706
0.825008066
0.826082615
0.828166459
0.828662788
0.829120106
0.830175879
0.830840829
0.830963728

Flecainide acetate
Methimazole
Cromolyn disodium salt
Dimethadione
Methazolamide
Eburnamonine (-)
Sulfamethizole
Butamben
Midodrine hydrochloride
Nitrofurantoin
Zomepirac sodium salt
Chlorzoxazone
Ribostamycin sulfate salt
Methiazole
Pentylentetrazole
Ranitidine hydrochloride
Nafcillin sodium salt monohydrate
Indoprofen
Isopropamide iodide
Methacycline hydrochloride
Bicuculline (+)
Yohimbine hydrochloride
Hydrocotarnine hydrobromide
Dimethisoquin hydrochloride
Flufenamic acid
Flucloxacillin sodium
Galanthamine hydrobromide
Fenoprofen calcium salt dihydrate
Isocorydine (+)
Butylparaben
Ofloxacin
Piromidic acid
Corynanthine hydrochloride
Naftopidil dihydrochloride
Zardaverine
Norgestrel(-)-D
Tetracaïne hydrochloride
Cefoxitin sodium salt
Gramine
Demeclocycline hydrochloride
Azlocillin sodium salt
Hydrastine hydrochloride
Ipratropium bromide
Phenethicillin potassium salt
Fluspirilen
Etodolac
Harmol hydrochloride monohydrate
Bergenin monohydrate
Ampyrone
Norfloxacin
Cantharidin
Sparteine (-)
Althiazide
Solanine alpha
Tomatidine
Riboflavine
Fosfosal
Cefazolin sodium salt
Sulfamethoxy pyridazine
Digitoxigenin
Isocarboxazid
Digoxin
Leflunomide

0.832923001
0.834416541
0.837753705
0.840674372
0.841495306
0.841729554
0.841932389
0.842599316
0.8430944
0.844616708
0.848039054
0.848482172
0.848869514
0.849535106
0.854277495
0.854837962
0.855401359
0.856404213
0.856712055
0.857380891
0.857478232
0.859438028
0.860446686
0.861289772
0.862666413
0.863800188
0.864827514
0.865550825
0.868732112
0.870950334
0.871637596
0.871942986
0.880592194
0.881430071
0.882096299
0.88449262
0.885106752

0.885523815
0.887861325
0.887861584
0.888155103
0.891496455
0.892353058
0.893601893
0.895610831
0.895767029
0.897089117
0.899096058
0.900144361
0.900442394
0.901210565
0.901845422
0.903404019

0.903873657

0.906155392
0.906358508
0.906625267
0.908303688
0.91218425
0.912853601
0.912933599

Amiprilose hydrochloride
Trimethylcolchicinic acid
Flunixin meglumine
Flumethasone
Dichlorphenamide
Demecarium bromide
Boldine
Atropine sulfate monohydrate
Isoetharine mesylate salt
Chrysin
Carbinoxamine maleate salt
Pridinol methanesulfonate salt
Sulfadimethoxine
Noscapine
Stachydrine hydrochloride
Metampicillin sodium salt
Dicumarol
Tinidazole
Sulfameter
Moxalactam disodium salt
Rauwolscine hydrochloride
Lithocholic acid
Methacholine chloride
Pipenzolate bromide
Amrinone
Sulfanilamide
Ethinylestradiol 3-methyl ether
Eucatropine hydrochloride
Ethoxyquin
Cinchonine
Harmalol hydrochloride dihydrate
Mometasone furoate
Reserpine
Isopyrin hydrochloride
Tranexamic acid
Piperlongumine
Rescinnamin
Tubocurarine chloride pentahydrate
(+)
Glycopyrrolate
Folic acid
Furaltadone hydrochloride
Nadolol
Phenazopyridine hydrochloride
Suprofen
Mevalonic-D, L acid lactone
Methoxy-6-harmalan
Pseudopelletierine hydrochloride
Xylazine
Dilazep dihydrochloride
Promethazine hydrochloride
Cinoxacin
Salsolinol hydrobromide
Hyoscyamine (L)
Cephaeline dihydrochloride
heptahydrate
Tiratricol, 3,3',5-triiodothyroacetic
acid
Cytisine (-)
Doxazosin mesylate
Papaverine hydrochloride
Protoveratrine A
Spectinomycin dihydrochloride
Diethylstilbestrol

0.914938313
0.9152024
0.915219501
0.917394922
0.91787198
0.920677026
0.920967688
0.924978368
0.925072373
0.928511392
0.929522112
0.929795653

0.932113955
0.932484114
0.942111304
0.94847642
0.950392657
0.950591411
0.953560699
0.954684873
0.956211116
0.96111205
0.961183942
0.96479198
0.965899009
0.966534061
0.966570859

0.966612767
0.966717651
0.966830305
0.966919456
0.967393852
0.968368698
0.968598158
0.970904123
0.972175344
0.976782504
0.979901383
0.980028091
0.980871839
0.98325058
0.983295467
0.986521683
0.98822821
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0.991130553
0.993256728
0.994019699
0.994570522
1.0100065
1.053728962
1.258737761
1.306409549
1.419656244
1.47780539
1.530220826
1.829200271
2.092602445
2.346496979
2.605469362
4.895988884
6.333186562

Methotrimeprazine maleate salt
Hecogenin
Seneciphylline
Pyridoxine hydrochloride
Ethopropazine hydrochloride
Mephentermine hemisulfate
Equilin
Dacarbazine
Deferoxamine mesylate
Cycloheximide
Diflorasone Diacetate
Racecadotril
Eserine sulfate, physostigmine sulfate
Primaquine diphosphate
Strophanthidin
L(-)-vesamicol hydrochloride
Azacytidine-5
Syrosingopine
Ergocryptine-alpha
Conessine
Acetopromazine maleate salt
Clioquinol
Spiramycin
Aminophylline
Rimexolone
Methylhydantoin-5-(L)
Harmaline hydrochloride dihydrate
Canavanine sulfate monohydrate (L,+)
Ethaverine hydrochloride
Anisomycin
Dihydroergotoxine mesylate
Dienestrol
Dihydroergocristine mesylate
Serotonin hydrochloride
Mitoxantrone dihydrochloride
Colchicine
Emetine dihydrochloride
Monobenzene
Lidoflazine
Chlorambucil
Simvastatin
Podophyllotoxin
Tolmetin sodium salt dihydrate
Luteolin
Terfenadine
Riluzole hydrochloride
Doxorubicin hydrochloride
Famprofazone
Fluvastatin sodium salt
Etoposide
Dirithromycin
Benzamil hydrochloride
Chlorpromazine hydrochloride
Gliclazide
Tetrandrine
Nocodazole
Apigenin
Trolox
Rifampicin
(R)-(+)-Atenolol
Colistin sulfate
Thiocolchicoside

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*

9.852578736	Methionine sulfoximine (L)
9.900139189	Prenylamine lactate
13.83040007	Etifenin
14.44399952	Nitrofuraf
16.78663486	Fluoxetine hydrochloride
17.32933594	Hexetidine
18.07917081	Ethionamide
21.09108532	Sulfasalazine