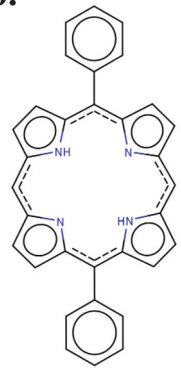


# 3,3 diindolylmethane

a.

Name	Value
Weight	246.313 g/mol
Zinc ID	ZINC187911
Smiles	c1ccc2c(Cc3c[nH]c4cccc34)c[nH]c2c1
Molecular formula	C17H14N2
Mode of inhibition	N/A

b.



## Clinical Trials

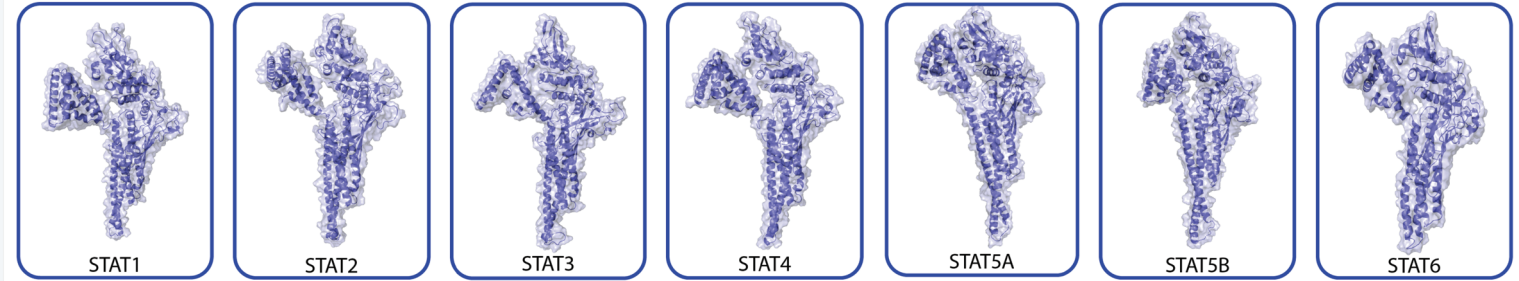
Show 10 entries

c.

Study title	Status	Conditions	Link
3,3-Diindolylmethane in Patients With Systemic Lupus Erythematosus	Terminated	SLE	NCT02483624
A Nutritional Intervention to Decrease Breast Density Among Female BRCA (BRCA1/2) Carriers	Unknown status	BRCA1 Gene Mutation   BRCA2 Gene Mutation	NCT02197000
Diindolylmethane in Healthy Volunteers	Completed	Healthy, no Evidence of Disease	NCT00392652

## Visualization

d.



## References

Show 10 entries

e.

Publication	DOI	Pubmed	PMCID
3,3-Diindolylmethane suppresses vascular smooth muscle cell phenotypic modulation and inhibits neointima formation after carotid injury. <i>PLoS one</i> Hongjing Guan, Lihua Zhu, Mingyue Fu, Da Yang, Song Tian, Yuanyan Guo, Changping Cui, Lang Wang, Hong Jiang, 7-4, None, 2012-04-10; 10.1371/journal.pone.0034957	10.1371/journal.pone.0034957	22506059	PMC3323601
Diindolylmethane suppresses ovarian cancer growth and potentiates the effect of cisplatin in tumor mouse model by targeting signal transducer and activator of transcription 3 (STAT3). <i>BMC medicine</i> Prabhoo K Kandala, Sanjay K Srivastava, 10, None, 2012-01-26; 2012-01-26; 10.1186/1741-7015-10-9.	10.1186/1741-7015-10-9.	22280969	PMC3298725
Inhibition of STAT Signalling in Bladder Cancer by Diindolylmethane - Relevance to Cell Adhesion, Migration and Proliferation	N/A	N/A	N/A
Regulation of Janus-activated Kinase-2 (JAK2) by diindolylmethane in ovarian cancer in vitro and in vivo	10.5582/dot.2012.v6.2.94	https://www.ncbi.nlm.nih.gov/pubmed/22622019	N/A

Showing 1 to 4 of 4 entries

Previous 1 Next

## Vendors

f.

Company	Lnk to product
Caymanchemical	https://www.caymanchem.com/product/16090/59k2C15-dpp
MERCK (Sigma Aldrich)	https://www.sigmaaldrich.com/catalog/product/mm/573109?lang=pl&region=PL
Sanata Cruz Biotechnology	https://www.scbt.com/p/stat3-inhibitor-viii-5-15-dpp-22112-89-6
Abcam	https://www.abcam.com/515-dpp-stat3-inhibitor-viii-stat3-inhibitor-ab146023.html
ClinSciSciences	https://www.clinisciences.com/autres-produits-186/stat3-inhibitor-viii-5-15-dpp-22112-1279971.html

## Filter data

g.

Compound	3,3 diindolylmethane
Experiment types	Aortic ring assay, BrdU cell proliferation assay, Caspase 3/7 activity, Cell Migration Assay, Collagen adhesion assay, ELISA, E2-TFA transcription factor colorimetric assay, Flow cytometry, Flow cytometry- annexin V binding and propidium iodide staining, Immunofluorescence, Immunohistochemical staining, Immunohistochemistry, Luciferase activity, Mice weight, SRB cell survival assay, TUNEL, Transwell Boyden Chamber; Hema Gurr rapid stain (BDH), Trypan blue dye exclusion assay, Tumor volume, WST-1, Western Blot, Wound healing assay, annexin V binding and propidium iodide staining
Concentrations	1.00, 10.00, 100.00, 120.00, 150.00, 20.00, 25.00, 3.00, 40.00, 5.00, 50.00, 60.00, 75.00, 80.00
Cell lines	A2780, HUVECS, J82, NOSE, OVCAR-3, OVCAR-429, OVCAR-433, RT112, RT4, SKOV-3, SKOV-3 (xenograft), SKOV-3 (xenografts), TOV-21G, V5MC, carotid artery tissue, rat thoracic aorta
Organisms	Homo sapiens, Mus musculus, Rattus norvegicus
Animal models	Cr1NU(NCr)-Foxn1nu, athymic nude mice, c57BL/6
STAT proteins	PARP, STAT1, STAT1 (cytoplasm), STAT1 (nucleus), STAT3, STAT3 (cytoplasm), STAT3 (nucleus), STAT5A, STAT5B, p-STAT1 (Y701), p-STAT1 (cytoplasm), p-STAT1 (nucleus), p-STAT3 (S727), p-STAT3 (Y705), p-STAT3 (Y705) (nucleus), p-STAT3 (cytoplasm), p-STAT3 (nucleus), p-STAT3(Y705)
Other	Actin, Akt473, CD31, CD45, CDK4, CDK6, Cdc25C, Cdk1/Cdc2, Cdk6, Cleaved Caspase 3, Cleaved Caspase-3, Cleaved PARP, Cyclin B1, Cyclin D1, Desmin, ERK, GAPDH, GSK3B, HIF-1a, IL-6, Lamin B (nucleus), Mcl-1, PDGFR, PK1, SM alpha-actin, SM22, Survivin, VEGF, actin, lamin (cytoplasm), lamin (nucleus), p-Akt473, p-ERK, p-GSK3B, p-JAK2 (Y1007), p-PDGFR, p-cofilin, p27Kip1

## Experiments

Show 10 entries

h.

Compound	Experiment type	Concentration	Cell line	Organism	Animal model	Stat protein	Details
3,3 diindolylmethane	Western Blot	25.00 µM	SKOV-3	Homo sapiens			
3,3 diindolylmethane	Western Blot	50.00 µM	SKOV-3	Homo sapiens			
3,3 diindolylmethane	Western Blot	75.00 µM	SKOV-3	Homo sapiens			
3,3 diindolylmethane	Western Blot	25.00 µM	NOSE	Homo sapiens			

**Supplementary Figure 1. Exemplary page presenting data about STAT inhibitory compound in SINBAD.**

**A.** Summary table with basic data regarding name, formula, molecular weight and way compound interacts with STAT proteins. **B.** Presentation of molecules' structure. **C.** Searchable table with data regarding performed clinical trials (if available). It provides name of conducted study with its unique number, information about status and conditions of particular trial. **D.** For some compounds we provide visualization of their interaction with STAT-SH2 domain. Models published in PlosOne by Szelag et al. **E.** References with links to Pubmed and DOI numbers. **F.** Section providing quick links to potential vendor webpages. **G.** Table summarizing all conducted experiments and all conditions that were tested including cell lines, compound concentrations, animal models. STAT proteins and other possible targets. Each phrase is a functional link to more detailed information about particular conditions. **H.** Searchable table containing detailed information about all experiments conducted with usage of a particular compound.