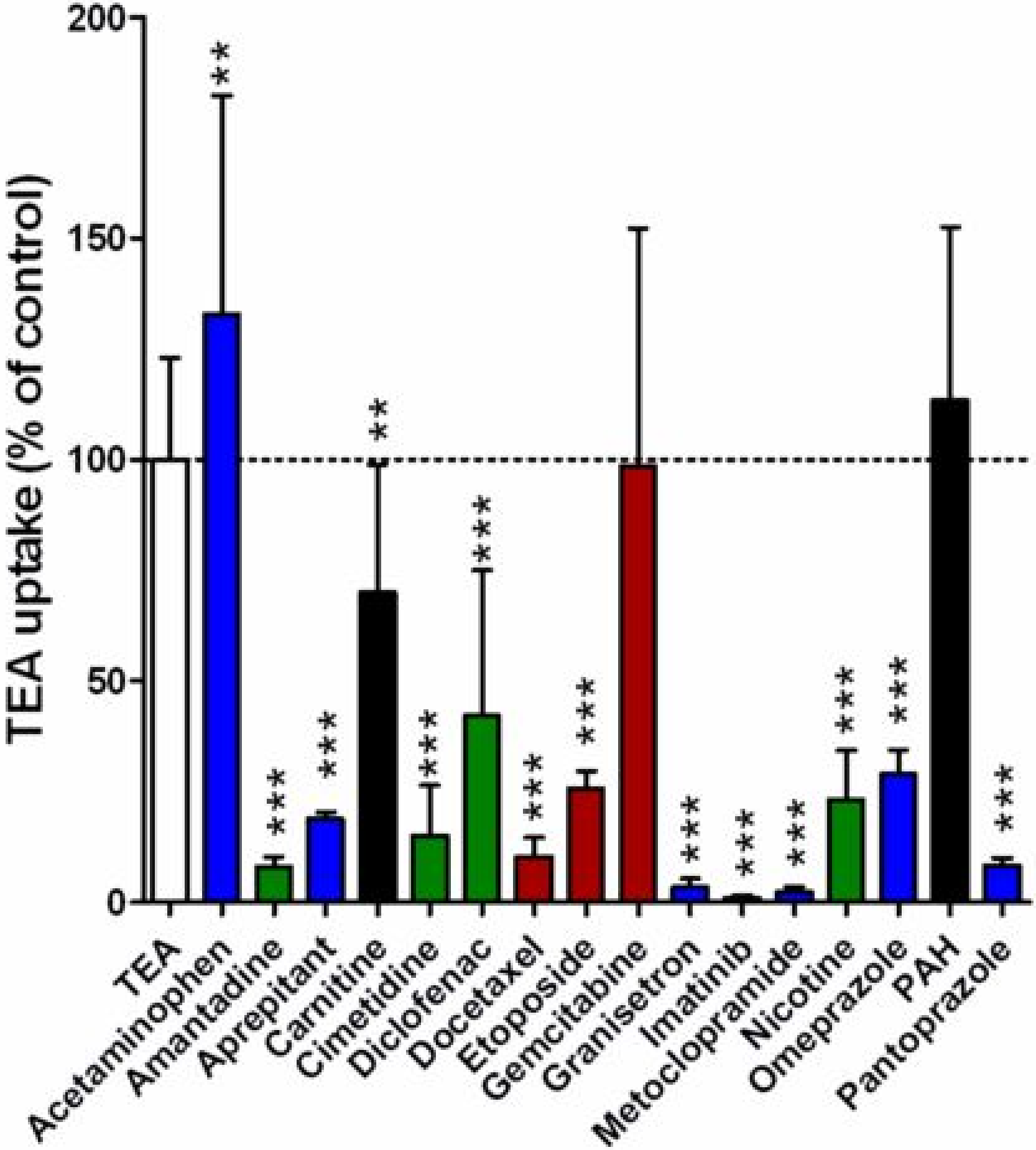
TEA uptake (% of control)
200
150
100
50
0
***
***
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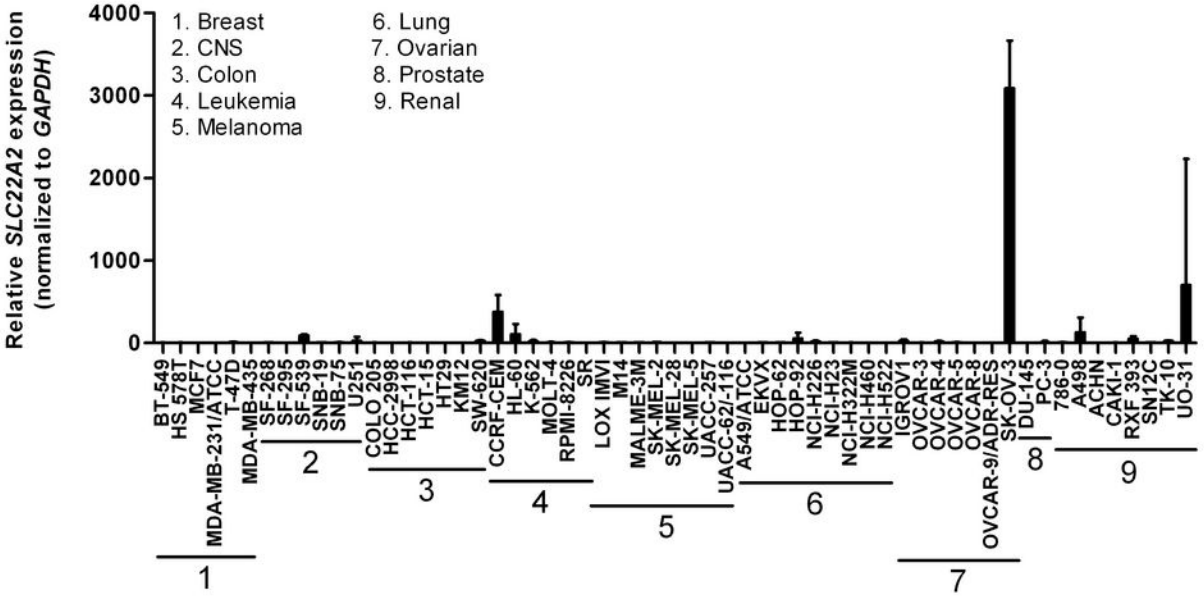
***
TEA
Acetaminophen
Amantadine
Aprepitant
Carnitine
Cimetidine
Diclofenac
Docetaxel
Etoposide
Gemcitabine
Granisetron
Imatinib
Metoclopramide
Nicotine
Omeprazole
PAH
Pantoprazole


Relative SLC22A2 expression
(normalized to GAPDH)
4000
3000
2000
1000
0
1. Breast
2. CNS
3. Colon
4. Leukemia
5. Melanoma
6. Lung
7. Ovarian
8. Prostate
9. Renal
BT-549
HS 578T
MCF7
MDA-MB-231/ATCC
T-47D
MDA-MB-435
SF-268
SF-295
SF-539
SNB-19
SNB-75
U251
COLO 205
HCC-2998
HCT-116
HCT-15
HT29
KM12
SW-620
CCRF-CEM
HL-60
K-562
MOLT-4
RPMI-8226
SR
LOX IMVI
M14
MALME-3M
SK-MEL-2
SK-MEL-28
SK-MEL-5
UACC-257
UACC-62/-116
A549/ATCC
EKVX
HOP-62
HOP-92
NCI-H226
NCI-H23
NCI-H322M
NCI-H460
NCI-H522
IGROV1
OVCAR-3
OVCAR-4
OVCAR-5
OVCAR-8
OVCAR-9/ADR-RES
SK-OV-3
DU-145
PC-3
786-0
A498
ACHN
CAKI-1
RXF 393
SN12C
TK-10
UO-31
1
2
3
4
5
6
7
8
9

Supplementary Figure 1.

Inhibition of OCT2-mediated transport of TEA by various prescription drugs. Transport of [^{14}C]-TEA (2 μM) during a 30-min incubation was assessed in 293Flip-In cells transfected with an empty vector (VC) or with OCT2 in the presence and absence of the inhibitors at a substrate-to-inhibitor concentration ratio of 1:500 (1 mM of inhibitor). Data represent the extent of TEA uptake in OCT2-overexpressing cells corrected for nonspecific uptake in VC cells, and were expressed as a percentage of uptake in the absence of inhibitors, which was set at 100%. Data are shown as mean (bars) and SD (error bars) of at least three experiments performed in triplicate. **Red**, cancer drugs; **Blue**, supportive-care drugs; **Green**, known OCT2 inhibitors; **Black**, other. **, P<0.01 vs control; ***, P<0.001 vs control.

Supplementary Figure 2.

Expression of the OCT2 gene, SLC22A2, in the NCI60 cancer cell lines. Real-time PCR expression levels of *SLC22A2* (normalized to *GAPDH*) in the NCI60 panel. *Abbreviation:* CNS, central nervous system; Data are shown as mean (bars) and SD (error bars) of three experiments performed in duplicate.