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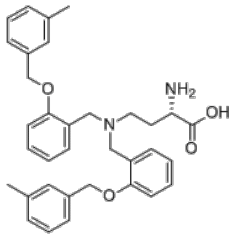
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	V-9302
Cat. No.	:	PC-50008
CAS No.	:	1855871-76-9
Molecular Formula	:	$C_{34}H_{38}N_2O_4$
Molecular Weight	:	538.688
Target	:	Glutamate Transporter
Solubility	:	10 mM in DMSO



Biological Activity

V-9302 (V9302) is a competitive, selective antagonist of transmembrane glutamine flux that selectively and potently targets the amino acid transporter **ASCT2** with IC50 of 9.6 uM.
V-9302 displays 100-fold improvement in potency over γ-L-glutamyl-p-nitroanilide (GPNA).
V-9302 attenuates cancer cell growth and proliferation (CRC cell lines EC50=9-15 uM), increases cell death, and increases oxidative stress, which collectively contribute to antitumor responses in vitro and in vivo.

References

Schulte ML, et al. ***Nat Med***. 2018 Jan 15. doi: 10.1038/nm.4464.

Schulte ML, et al. ***Bioorg Med Chem Lett.*** 2016 Feb 1;26(3):1044-1047.

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