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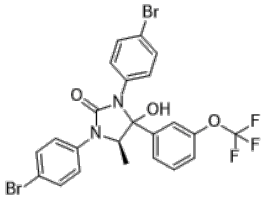
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	S202
Cat. No.	:	PC-38767
CAS No.	:	2169248-42-2
Molecular Formula	:	$C_{23}H_{17}Br_2F_3N_2O_3$
Molecular Weight	:	586.203
Target	:	Other Targets
Solubility	:	10 mM in DMSO



CAS: 2169248-42-2

Biological Activity

S202 is a potent, selective and brain-penetrant small molecule inhibitor of **ceramide galactosyltransferase** (**CGT**) with IC50 of 15 nM in the cell-lysate assays and 3.6 nM in intact-cell assays.
S202 exhibits minimal to no activity toward other enzymes that act on related glycosphingolipids.
S202 preferentially reduces non-hydroxy-GalCer synthesis in vivo.
S202 (0-1.5 mg/kg) extends survival and reduces psychosine levels in a krabbe disease (KD) mouse model, causes a dose-dependent reduction in non-hydroxy-GalCer without reducing 2-hydroxy-GalCer in the brain.
S202 (0.15 mg/kg, i.p. three times per week) improves histological and immunological markers in Twitcher mice.
S202 treatment reduces non-hydroxy-sulfatides and lysosulfatide in an MLD mouse model.

References

Michael C Babcock, et al. ***Sci Rep***. 2021 Jul 14;11(1):14486.

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