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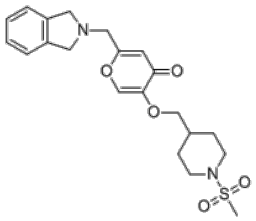
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ODM-208
Cat. No.	:	PC-49349
CAS No.	:	2231294-96-3
Molecular Formula	:	$C_{21}H_{26}N_2O_5S$
Molecular Weight	:	418.508
Target	:	Cytochrome P450 (CYPs)
Solubility	:	10 mM in DMSO



Biological Activity

ODM-208 (Opevesostat) is a potent, selective, orally bioavailable **CYP11A1** inhibitor, inhibits the biosynthesis of pregnenolone with IC50 of 15 nM in NCI-H295R cells.
ODM-208 is CYP11A1-selective, shows >1,000 selectivity over metabolising CYP enzymes (CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, and CYP3A4).
ODM-208 is superior in steroid hormone biosynthesis inhibition compared to the non-selective CYP inhibitors ketoconazole and etomidate.
ODM-208 displays pregnenolone production inhibition with IC50 of 108 nM and 2,167 nM with NADPH and without NADPH, respectively.
ODM-208 displays rapid, complete, durable, and reversible inhibition of the steroid hormone biosynthesis in an adrenocortical carcinoma cell model in vitro, in adult non-castrated male mice and dogs, and in patients with CRPC.
ODM-208 (2 mg/kg/day, oral) treatment causes a significant and dose-dependent decrease in the plasma cortisol and testosterone concentrations in adult non-castrated Beagle dogs.

References

Mari Karimaa, et al. ***Mol Cancer Ther.*** 2022 Sep 21;MCT-22-0115.

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