

Product Data Sheet

Product Name: OD1
Cat. No.: GC50299

Chemical Properties

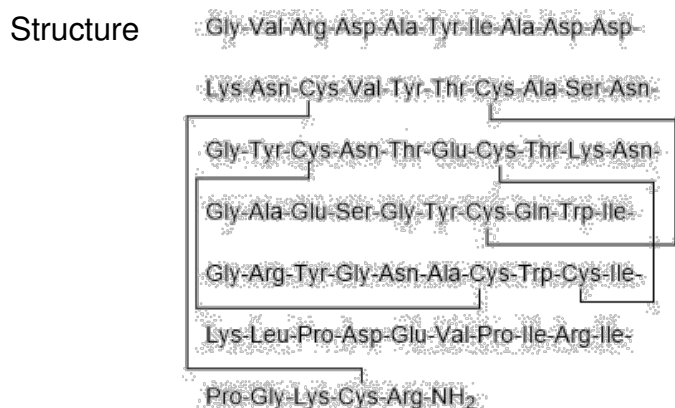
Cas. No.

Formula C308H466N90O95S8 M.Wt 7206.1

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

Potent rat Nav1.7, human Nav1.4 and rat Nav1.6 channel activator (EC50 values are 7, 10 and 47 nM, respectively). Exhibits minimal activation at mammalian Nav1.2, Nav1.3 and Nav1.5 (EC50 values >3 µM). Inhibits fast inactivation on all channels. Increases peak currents at all voltages and stimulates a persistent Na⁺ current at hNav1.7 channel. Increases hyperpolarization at Nav1.4 and Nav1.6 channels. Induces spontaneous pain in vivo.

Durek et al (2013) Chemical engineering and structural and pharmacological characterization of the α-scorpion toxin OD1. ACS Chem.Biol. 8 1215 PMID:23527544 | Jalali et al (2005) OD1, the first toxin isolated from the venom of the scorpion *Odonthobuthus doriae* active on voltage-gated Na⁺ channels. FEBS Lett. 579 4181 PMID:16038905 | Maertens et al (2006) Potent modulation of the

Caution: Product has not been fully validated for medical applications. For research use only.

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voltage-gated sodium channel Nav1.7 by OD1, a toxin from the scorpion *Odonthobuthus doriae*.
Mol.Pharmacol. 70 405 PMID:16641312

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