

OSK-1

Chemical Properties

CAS No. : 183815-75-0

Formula:

Molecular Weight:

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

GVIIIVKCKISRQCLEPCKKAGMRFKCMNGKCHCTPK
(Disulfide bridge:Cys8-Cys28,Cys14-Cys33,Cys18-Cys35)

Biological Description

Description	OSK-1 is a potent potassium channel blocker belonging to the α -KTx3 toxins. It exhibits IC50 values of 0.6 nM, 5.4 nM, and 0.014 nM for Kv1.1, Kv1.2, and Kv1.3 channels, respectively. Additionally, OSK-1 acts as a moderate blocker of the calcium-activated KCa3.1 channel, with an IC50 of 225 nM. Consequently, OSK-1 finds application as an immunosuppressive drug.
Targets(IC50)	Potassium Channel
In vitro	OSK1 does not influence the K Ca 2.1, K Ca 2.2, K Ca 2.3, and K Ca 1.1 channels at micromolar concentrations, but exhibits moderate activity on the K Ca 3.1 channel (also known as IK1 or SK4), with an IC50 value of 225 nM[1].
In vivo	OSK1, when administered through intracerebroventricular injection, is lethal to mice, exhibiting a 50% lethal dose (LD 50) value of 2 μ g/kg[1].

Reference

Stéphanie Mouhat, et al. K⁺ channel types targeted by synthetic OSK1, a toxin from Orthochirus scrobiculosus scorpion venom. Biochem J. 2005 Jan 1;385(Pt 1):95-104.

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