
Product Data Sheet

Product Name: OB-1
Cat. No.: GC50492

Chemical Properties

Cas. No. 300803-69-4

SMILES CCOC(C1=C(C2=CC=CC=C2)OC3=CC=C(C=C13)OC4=C([N+])([O-])=O)N=CN4C)=O

Formula $C_{21}H_{17}N_3O_6$ M.Wt 407.38

Solubility DMSO : 12.73 mg/mL (31.25 mM; ultrasonic and warming and heat to 60°C) 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.

Structure

Background

Stomatin-like protein-3 (STOML3) oligomerization inhibitor. Reduces STOML3 cluster size in the plasma membrane. Decreases mechanically-induced Piezo1 but not ASIC3 current amplitudes in N2a cells and cultured mouse sensory neurons in vitro. Subcutaneous administration in mice reversibly silences touch receptor activity and inhibits paw withdrawal reflex in a mouse neuropathic pain model.

Wetzel et al (2017) Small-molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. Nat.Neurosci. 20 209 PMID:27941788

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

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