

PSEM 308 hydrochloride

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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

Actual storage temperature shall be subject to the COA.

Biological Description

Description	PSAM (pharmacologically selective actuator module) agonist. Activates PSAML141F-GlyR chimeric ion channels. Inhibits activity of neurons expressing PSAML141F-GlyR in vivo and activates locus coeruleus noradrenergic neurons expressing PSAML141F,Y115F-5-HT3 ion channels. Recommended concentration for use in mice is 5 mg/kg or lower. Plasmid vectors for the transfection of cells with PSAML141F-GlyR and PSAML141F, Y115F-5-HT3 are available from Addgene.
Targets(IC50)	Others,5-HT Receptor

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Lovett-Barron et al (2012) Regulation of neuronal input transformations by tunable dendritic inhibition. Nat. Neurosci. 15 423 PMID:22246433

Satoh et al (2016) Context-dependent gait choice elicited by EphA4 mutation in Lbx1 spinal interneurons. Neuron 89 1046 PMID:26924434

Atasoy et al (2012) Deconstruction of a neural circuit for hunger. Nature 488 172 PMID:22801496

Hirschberg et al (2017) Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats. Elife 6 e29808 PMID:29027903

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