
Product Data Sheet

Product Name: PSEM 308 hydrochloride

Cat. No.: GC50448

Chemical Properties

Cas. No.

SMILES CC1CC2=CC=CC3=C2N1N=C4C(C3)[N@@]5CC[C@H]4CC5.Cl

Formula $C_{17}H_{21}N_3.HCl$ M.Wt 303.83

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.

Structure

Background

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.

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

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

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