

Product Data Sheet

Product Name: PSEM 89S

Cat. No.: GC50449

Chemical Properties

Cas. No. 1336913-03-1

SMILES OC(C(F)(F)F)=O.O=C(N[C@@H]1CN2CCC1CC2)C(C=C3OC)=C(C=C3)OC

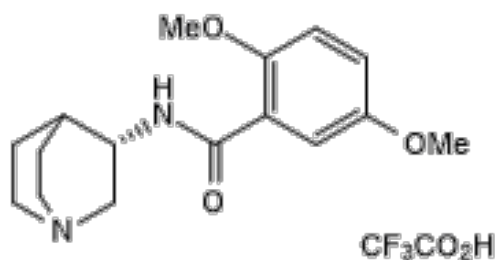
Formula C16H22N2O3.CF3CO2H M.Wt 404.38

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

PSAML141F-GlyR and PSAML141F,Y115F-5-HT3 chimeric ion channel agonist (EC50 values are 3.4 and 2.2 μM, respectively). Activates cortical neurons expressing PSAML141F,Y115F-5-HT3 chimeric ion channels and inhibits activity of neurons expressing PSAML141F-GlyR in vitro. Silences hypothalamic AGRP neurons transfected with PSAML141F-GlyR chimeric ion channels in mice in vivo, leading to suppression of feeding. Brain penetrant. Plasmid vectors for the transfection of cells with PSAML141F-GlyR and PSAML141F,Y115F-5-HT3 are available from Addgene.

Magnus et al (2011) Chemical and genetic engineering of selective ion channel-ligand interactions. Science 333 1292 PMID:21885782 | Cerritelli et al (2016) Activation of brainstem pro-opiomelanocortin neurons produces opioidergic analgesia, bradycardia and bradypnoea. PLoS One 11 e0153187 PMID:27077912

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

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