
Product Data Sheet

Product Name: uPSEM 817 tartrate

Cat. No.: GC50587

Chemical Properties

Cas. No. 2341833-14-3

SMILES CCCCOC1=NC2=C(N=C1)C=C(C3=C2)C4CNCC3C4.O[C@@H](C(O)=O)[C@@H](O)C(O)=OFormula $C_{16}H_{19}N_3O \cdot C_4H_6O_6$ M.Wt 419.43

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**

Selective ultrapotent PSEM (uPSEM) agonist for $\alpha 7L131G, Q139L, Y217F$ -GlyR (PSAM4-GlyR) and PSAM4-5-HT3 chimeric ion channel agonist (EC50 values are 0.3 and 0.5 nM, respectively). Suppresses firing of layer 2/3 cortical neurons expressing PSAM4-GlyR in brain slices. Increases contralateral rotation in mice expressing PSAM4-GlyR unilaterally in the substantia nigra reticulata (LED 0.1 mg/kg).

Magnus et al (2019) Ultrapotent chemogenetics for research and potential clinical applications. Science 364 PMID:30872534

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

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