
Product Data Sheet

Product Name: uPSEM 792 hydrochloride

Cat. No.: GC50586

Chemical Properties

Cas. No. 2341841-08-3

SMILES O=C1C=NC2=C(C=C3C(C4CNCC3C4)=C2)N1C.ClFormula $C_{14}H_{15}N_3O.HCl$ M.Wt 277.75

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**

Ultrapotent PSEM (uPSEM) agonist for PSAM4-GlyR and PSAM4-5HT3 ($K_i = 0.7$ nM for PSAM4-GlyR and <10 nM for PSAM4-5HT3). Exhibits $>10,000$ -fold agonist selectivity for PSAM4-GlyR over $\alpha 7$ -GlyR, $\alpha 7$ -5HT3, and 5HT3-R, and 230-fold selectivity over $\alpha 4\beta 2$ nAChR. Also weak partial agonist ($\sim 10\%$) at $\alpha 4\beta 2$ nAChR. Retains the potency of varenicline (Cat.No. 3754) for PSAM4-GlyR with enhanced chemogenetic selectivity. Does not act as a substrate for P-glycoprotein pumps. Silences neurons in vivo. Brain-penetrant.

Magnus et al (2019) Ultrapotent chemogenetics for research and potential clinical applications. Science doi: 10.1126/science PMID:30872534

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA