Data Sheet (Cat.No.T36810)

TargetMol

uPSEM 792 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	Ultrapotent PSEM (uPSEM) agonist for PSAM4-GlyR and PSAM4-5HT3 (Ki = 0.7 nM for PSAM4-GlyR and 10 nM for PSAM4-5HT3). Exhibits >10,000-fold agonist selectivity for PSAM4-GlyR over α7-GlyR, α7-5HT3, and 5HT3-R, and 230-fold selectivity over α4β2 nAChR. Also weak partial agonist (~10 %) at α4β2 nAChR. Retains the potency of varenicline for PSAM4-GlyR with enhanced chemogenetic selectivity. Does not act as a substrate for P-glycoprotein pumps. Silences neurons in vivo. Brain-penetrant.
Targets(IC50)	Others

Solubility Information

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

Reference

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

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