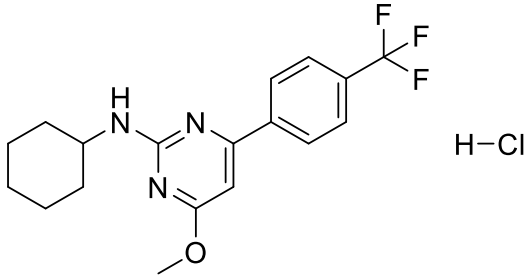


Product data sheet



MedKoo Cat#: 555150 Name: SSD114 HCl CAS#: 2319790-02-6 Chemical Formula: C ₁₈ H ₂₁ ClF ₃ N ₃ O Molecular Weight: 387.83		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

SSD114 is a GABAB positive allosteric modulator. SSD114 potentiated GABA-stimulated [35S]GTPγS binding to native GABAB receptors, whereas it had no effect when used alone. SSD114, a molecule with a different chemical structure compared to known GABAB PAMs, is a novel GABAB PAM with potential usefulness in the GABAB-receptor research field.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	130	335.20
Water	2	5.16

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.58 mL	12.89 mL	25.78 mL
5 mM	0.52 mL	2.58 mL	5.16 mL
10 mM	0.26 mL	1.29 mL	2.58 mL
50 mM	0.05 mL	0.26 mL	0.52 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Porcu A, Lobina C, Giunta D, Solinas M, Mugnaini C, Castelli MP. In vitro and in vivo pharmacological characterization of SSD114, a novel GABAB positive allosteric modulator. Eur J Pharmacol. 2016 Nov 15;791:115-123. doi: 10.1016/j.ejphar.2016.08.032. Epub 2016 Aug 27. PMID: 27578262.

In vivo study

To be determined

7. Bioactivity

Biological target:

SSD114 is a GABAB positive allosteric modulator.

In vitro activity

SSD114 is a novel GABAB PAM with potential usefulness in the GABAB-receptor research field. Increasing SSD114 fixed concentrations induced a leftward shift of the GABA concentration-response curve, enhancing the potency of GABA. SSD114 had a potentiating effect on GABA-stimulated binding of [35S]GTPγS to rat cortical membranes, with EC₅₀ values in the low micromolar range. SSD114 also potentiated the GABA inhibition of adenylyl-cyclase mediated by GABAB receptors in CHO cells.

Product data sheet



Reference: Eur J Pharmacol. 2016 Nov 15;791:115-123. <https://pubmed.ncbi.nlm.nih.gov/27578262/>

In vivo activity

To be determined

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.