

L-803087

## Chemical Properties

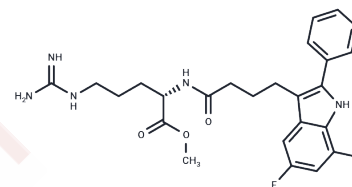
CAS No. : 217480-26-7

Formula: C<sub>25</sub>H<sub>29</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>

Molecular Weight: 485.53

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	L-803087 is a potent and selective agonist of the growth inhibitor sst4 receptor with a Ki value of 0.7 nM for sst4, demonstrating over 280-fold selectivity compared to other growth inhibitory receptors. L-803087 induces AMPA-mediated synaptic responses in the hippocampus in vitro and increases seizures in alginate-induced seizure-busting mice in vivo.
Targets(IC50)	Somatostatin
In vitro	L-803087 has Ki values of 199, 4720, 1280, and 3880 nM for cloned human sst1, sst2, sst3, and sst5 receptors, respectively[2]. The molecule L-803087 features a diamine moiety mapping to lysine on the pharmacophore. However, the relationship of this molecule to the aromatic and Trp substituents of the pharmacophore is not apparent. L-803087 does not inhibit the secretion of growth hormone, insulin, or glucagon[2].
In vivo	In wild-type mice, the administration of L-803087 (5 nmol) on average doubles seizure activity. Interestingly, this effect is blocked by 3 nmol Octreotide. In hippocampal slices from wild-type mice, Octreotide (2 µM) does not modify AMPA-mediated synaptic responses, whereas facilitation occurs with L-803087 (2 µM)[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (113.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0596 mL	10.298 mL	20.596 mL
5 mM	0.4119 mL	2.0596 mL	4.1192 mL
10 mM	0.206 mL	1.0298 mL	2.0596 mL
50 mM	0.0412 mL	0.206 mL	0.4119 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Moneta D, et al. Somatostatin receptor subtypes 2 and 4 affect seizure susceptibility and hippocampal excitatory neurotransmission in mice. *Eur J Neurosci.* 2002 Sep;16(5):843-9.

Rohrer SP, et al. Rapid identification of subtype-selective agonists of the somatostatin receptor through combinatorial chemistry. *Science.* 1998 Oct 23;282(5389):737-40.

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