

Product Datasheet

L-803087

Catalog No. **BP-01985** · CAS **217480-26-7** · Form **free base** · Physical state **solid** · Color **white to light yellow** · Version **1.0** · Revision **2026-09-10**

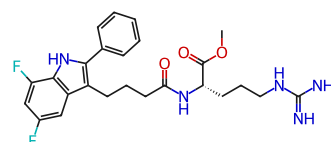
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Target Somatostatin Receptor	Research area Neurological Disease; Cancer
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Molecular formula **C₂₅H₂₉F₂N₅O₃**

Molecular weight **485.5263**

STRUCTURE



DESCRIPTION

L-803087 is a potent and selective somatostatin sst4 receptor agonist with a K_i of 0.7 nM. L-803087 is >280-fold higher than other somatostatin receptors. L-803087 facilitates AMPA-mediated hippocampal synaptic responses in vitro and increases kainate-induced seizures in mice.

BIOLOGICAL ACTIVITY

In Vitro

L-803087 has K_i values for cloned human sst1, sst2, sst3 and sst5 receptors of 199, 4720, 1280 and 3880 nM, respectively.

L-803087 has a diamine moiety that maps to lysine on the phmacophore, but relation of this molecule to the aromatic and the Trp substituents of the phmacophore are not obvious. L-803087 does not inhibit secretion of growth hormone, insulin, or glucagon.

In Vivo

L-803087 (5 nmol) is doubled seizure activity in wild-type mice on average. Interestingly, this effect is blocked by 3 nmol Octreotide. In hippocampal slices from wild-type mice, Octreotide (2 μ M) does not modify AMPA-mediated synaptic responses while facilitation occurred with L-803087 (2 μ M).

SOLUBILITY

Soluble in DMSO : 250 mg/mL

REFERENCES

[1]. 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.

[2]. 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.

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