

GR 46611

Chemical Properties

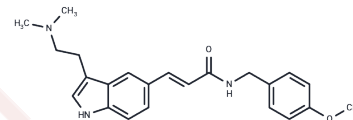
CAS No. : 185259-85-2

Formula: C₂₃H₂₇N₃O₂

Molecular Weight: 377.48

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	GR 46611 is a selective 5-HT _{1B} and 5-HT _{1D} receptor agonist and can be used in studies about the treatment of epilepsy.
Targets(IC ₅₀)	5-HT Receptor
In vivo	GR 46611 (0.6 and 6 nmol; paraventricular hypothalamic nucleus (PVN)) promptly and reliably elicited feeding at their higher doses, without affecting drinking or non-ingestive behaviors. GR 46611 (6 nmol) elicited intense feeding responses in the n. medialis hypothalami posterioris and in the adjacent n. lateralis hypothalami posterioris (PMH/PLH complex, in the caudoventral hypothalamus) and in the n. magnocellularis preopticus (PPM, in the caudal preoptic region)[1]. GR 46611 (1 mg/kg) significantly increased the threshold of hyperthermia-induced seizure and lowered seizure severity thereby improving the survival of DS mice[2].

Solubility Information

Solubility	DMSO: 11.3 mg/mL (29.94 mM),Sonication is recommended. Ethanol: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6491 mL	13.2457 mL	26.4915 mL
5 mM	0.5298 mL	2.6491 mL	5.2983 mL
10 mM	0.2649 mL	1.3246 mL	2.6491 mL
50 mM	0.053 mL	0.2649 mL	0.5298 mL

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

Da Silva RA, et al. Feeding behavior after metergoline or GR-46611 injections into the paraventricular nucleus of the hypothalamus in the pigeon. *Behav Brain Res.* 2007 May 16;179(2):248-57.

Hatini PG, Commons KG. A 5-HT1D -receptor agonist protects Dravet syndrome mice from seizure and early death. *Eur J Neurosci.* 2020 Nov;52(10):4370-4374.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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