

LUF 6283

Chemical Properties

CAS No. :	92933-48-7
Formula:	C ₈ H ₁₂ N ₂ O ₂
Molecular Weight:	168.193
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	LUF 6283 is a potent and orally active hydroxycarboxylic acid receptor 2 (HCA2) partial agonist with a K _i value of 0.55 μM, LUF 6283 is capable of producing the beneficial lipid-lowering effects of niacin without inducing the undesirable cutaneous flushing side effect, and is therefore used in dyslipidemia and metabolic research.
Targets(IC50)	Carbonic Anhydrase
In vitro	LUF 6283 functions as a partial agonist of the HCA2 receptor. In functional biological assays, LUF 6283 induces ERK1/2 phosphorylation with an EC ₅₀ value of 0.32 ± 0.06 μM [1].
In vivo	In in vivo studies using C57BL/6 mice, LUF 6283 has been observed to modulate markers of lipid metabolism. Following oral administration via gavage (400 mg/kg, once daily for 4 weeks), the compound results in a reduction in the expression of apolipoprotein B (APOB) [1].

Solubility Information

Solubility	Ethanol: <16.82 mg/mL, Sonication is recommended. DMSO: 80.00 mg/mL (475.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1.00 mg/mL (5.95 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9457 mL	29.7283 mL	59.4566 mL
5 mM	1.1891 mL	5.9457 mL	11.8913 mL
10 mM	0.5946 mL	2.9728 mL	5.9457 mL
50 mM	0.1189 mL	0.5946 mL	1.1891 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

Li Z, et al. Effects of pyrazole partial agonists on HCA(2) -mediated flushing and VLDL-triglyceride levels in mice. Br J Pharmacol. 2012 Oct;167(4):818-25.

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