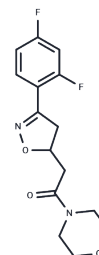


(±)-CPSI-1306

Chemical Properties

CAS No. :	1309793-47-2
Formula:	C ₁₅ H ₁₆ F ₂ N ₂ O ₃
Molecular Weight:	310.3
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(±)-CPSI-1306 (2-(3-(2,4-Difluorophenyl)-4,5-dihydroisoxazol-5-yl)-1-morpholinoethan-1-one) is a macrophage migration inhibitory factor (MIF) antagonist and can be used in studies about non-insulin-dependent diabetes mellitus (NIDDM) and the prevention of the deleterious cutaneous effects of acute and chronic UVB exposure.
Targets(IC50)	Others
In vivo	In mice, (±)-CPSI-1306 decreases their blood glucose levels and can be effective in treating non-insulin-dependent diabetes mellitus (NIDDM) as characterized by high serum levels of glucose and inflammatory cytokine[1]. (±)-CPSI-1306-induced keratinocyte apoptosis is appreciated 30 minutes after a single UVB exposure. (±)-CPSI-1306-treated mice show a significant increase in expression of cleaved caspase-3 at 6, 24, and 48 hours following UVB exposure. (±)-CPSI-1306 reduces acute UVB-induced keratinocyte DNA damage and UVB-induced acute inflammation[2].

Solubility Information

Solubility	DMSO: 5 mg/mL (16.1 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	3.2227 mL	16.1134 mL	32.2269 mL
5 mM	0.6445 mL	3.2227 mL	6.4454 mL
10 mM	0.3223 mL	1.6113 mL	3.2227 mL
50 mM	0.0645 mL	0.3223 mL	0.6445 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.

Reference

Sanchez-Zamora Y, et al. Macrophage migration inhibitory factor is a therapeutic target in treatment of non-insulin-dependent diabetes mellitus. FASEB J. 2010 Jul;24(7):2583-90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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