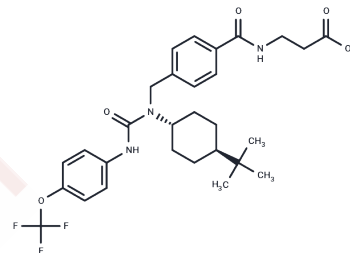


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Chemical Properties

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	GRA Ex-25 (GRA-Ex-25) is an inhibitor of glucagon receptor.
Targets(IC50)	Glucagon Receptor
In vitro	GRA Ex-25 binds to the human glucagon receptor (h-GlucRbind) with a K_i of 63 nM and exhibits moderate glucagon-induced adenylate cyclase inhibition (h-GlucRcyclase) with a K_i of 254 nM under our assay conditions[1], showing similar affinity for both rat and human glucagon receptors (IC_{50} =56 and 55 nM, respectively)[2].
In vivo	GRA Ex-25 (3 mg/kg, i.v.) significantly reduces blood glucose induced by exogenous glucagon in rat models, likely through direct inhibition of glucagon-stimulated hepatic glucose output[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (88.71 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	1.7743 mL	8.8714 mL	17.7428 mL
5 mM	0.3549 mL	1.7743 mL	3.5486 mL
10 mM	0.1774 mL	0.8871 mL	1.7743 mL
50 mM	0.0355 mL	0.1774 mL	0.3549 mL

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Reference

Kurukulasuriya R, et al. Biaryl amide glucagon receptor antagonists. Bioorg Med Chem Lett. 2004 May 3;14(9): 2047-50.

Li Y, Zhou X, Cheng C, et al. Gut AstA mediates sleep deprivation-induced energy wasting in Drosophila. Cell Discovery. 2023, 9(1): 49.

Lau J, et al. New beta-alanine derivatives are orally available glucagon receptor antagonists. J Med Chem. 2007 Jan 11;50(1):113-28.

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