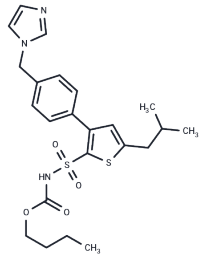
Data Sheet (Cat.No.T14337)

TargetMol
YOUR TARGET MOLECULES

Buloxibutid

Chemical Properties



CAS No. : 477775-14-7

Formula: C23H29N3O4S2

Molecular Weight: 475.62

Appearance: no data available

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

Biological Description

Description	Buloxibutid (AT2 receptor agonist C21) is a novel and selective small molecule angiotensin II AT2 receptor agonist with Ki values of 0.4 nM and 10 μM for AT2 and AT1 receptors, respectively.
Targets(IC50)	RAAS
In vivo	Buloxibutid, with a bioavailability of 20-30% after oral administration and a half-life estimated to 4 h in rats. Which induces the outgrowth of neurite cells, stimulates p42/p44mapk, and enhances in vivo duodenal alkaline secretion in Sprague-Dawley rats. And it lowers the mean arterial blood pressure in anesthetized, spontaneously hypertensive rats.[1]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (47.31 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1025 mL	10.5126 mL	21.0252 mL
5 mM	0.4205 mL	2.1025 mL	4.205 mL
10 mM	0.2103 mL	1.0513 mL	2.1025 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 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

Wan Y, et al. Design, synthesis, and biological evaluation of the first selective nonpeptide AT2 receptor agonist. J Med Chem. 2004 Nov 18;47(24):5995-6008.

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