

2-Furoyl-LIGRLO-amide TFA

Chemical Properties

CAS No. :	2468029-34-5
Formula:	C38H64F3N11O10
Molecular Weight:	891.98
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	2-Furoyl-LIGRLO-amide TFA is a potent, selective agonist of the proteinase-activated receptor 2 (PAR2), with a pD2 value of 7.0 [1] [2].
Targets(IC50)	Others,Protease-activated Receptor
In vitro	2-Furoyl-LIGRLO-amide (2-Furoyl-LIGRLO-NH2) demonstrates equivalent efficacy and exhibits 10 to 25-fold greater potency than SLIGRLNH2 in elevating intracellular calcium levels in human and rat cells expressing PAR2, respectively [1]. In tissue, it surpasses SLIGRL-NH2 by 10 to 300 times in causing arterial vasodilation and hyperpolarization. Unlike trans-cinnamoyl-LIGRLO-NH2, it does not induce significant non-PAR2-mediated contraction in mouse femoral arteries [1].
In vivo	When administered intradermally at the nape of the neck as a pre-injection at a dose of 10 µg, Furoyl-LIGRLO-amide TFA reduces scratching responses to 2-Furoyl-LIGRLO-amide in Trpv3 -/- mice, but not to histamine. In wild-type (WT) mice, however, the compound significantly decreases scratch behavior [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1211 mL	5.6055 mL	11.211 mL
5 mM	0.2242 mL	1.1211 mL	2.2422 mL
10 mM	0.1121 mL	0.5606 mL	1.1211 mL
50 mM	0.0224 mL	0.1121 mL	0.2242 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481