
Product Data Sheet

Product Name: 2-Furoyl-LIGRLO-amide TFA

Cat. No.: GC38731

Chemical Properties

Cas. No. 2468029-34-5

Formula $C_{38}H_{64}F_3N_{11}O_{10}$

M.Wt 891.98

Solubility Soluble in DMSO

Storage Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

2-Furoyl-LIGRLO-amide TFA is a potent and selective proteinase-activated receptor 2 (PAR2) agonist with a pD2 value of 7.0[1][2].

2-Furoyl-LIGRLO-amide (2-Furoyl-LIGRLO-NH2) is equally effective to and 10 to 25 times more potent than SLIGRLNH2 for increasing intracellular calcium in cultured human and rat PAR2-expressing cells, respectively[1]. In bioassays of tissue PAR2 activity, measured as arterial vasodilation and hyperpolarization, 2-Furoyl-LIGRLO-amide (2-Furoyl-LIGRLO-NH2) is 10 to 300 times more potent than SLIGRL-NH2. Unlike trans-cinnamoyl-LIGRLO-NH2, 2-Furoyl-LIGRLO-amide do not cause a prominent non-PAR2-mediated contraction of murine femoral arteries[1].

[1]. McGuire JJ, et al. 2-furoyl-LIGRLO-amide: a potent and selective proteinase-activated receptor 2 agonist. *J Pharmacol Exp Ther.* 2004 Jun;309(3):1124-31. [2]. Lohman RJ, et al. An antagonist of human protease activated receptor-2 attenuates PAR2 signaling, macrophage activation, mast cell degranulation, and collagen-induced arthritis in rats. *FASEB J.* 2012 Jul;26(7):2877-87.

Caution: Product has not been fully validated for medical applications. For research use only.

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