

## GB-110 hydrochloride (1252806-70-4 free base)

## Chemical Properties

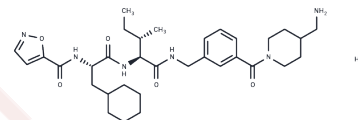
CAS No. :

Formula: C<sub>33</sub>H<sub>49</sub>ClN<sub>6</sub>O<sub>5</sub>

Molecular Weight: 645.23

Appearance: no data available

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



## Biological Description

Description	GB-110 hydrochloride selectively induces PAR2-mediated intracellular Ca <sup>2+</sup> release in HT29 cells with an EC <sub>50</sub> of 0.28 μM. GB-110 hydrochloride is a potent, orally active, and nonpeptidic protease activated receptor 2 (PAR2) agonist.
Targets(IC <sub>50</sub> )	Others
In vitro	In an intracellular Ca <sup>2+</sup> (iCa <sup>2+</sup> ) mobilization assay using HT29 colon cancer cells, GB110 (EC <sub>50</sub> 240±20 nM; pEC <sub>50</sub> 6.7±0.05) is equipotent with the peptide agonist 2f-LIGRLO-NH <sub>2</sub> (EC <sub>50</sub> 210±30 nM; pEC <sub>50</sub> 6.6±0.05), 10-fold more potent than SLIGRL-NH <sub>2</sub> , but ~35-fold less potent than trypsin (EC <sub>50</sub> 6±0.5 nM; pEC <sub>50</sub> 8.2±0.8).

## Solubility Information

Solubility	DMSO: 125 mg/mL (193.73 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	1.5498 mL	7.7492 mL	15.4983 mL
5 mM	0.310 mL	1.5498 mL	3.0997 mL
10 mM	0.155 mL	0.7749 mL	1.5498 mL
50 mM	0.031 mL	0.155 mL	0.310 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

- Barry GD, et al. Novel agonists and antagonists for human protease activated receptor 2. J Med Chem. 2010 Oct 28; 53(20):7428-40.
- Suen JY, et al. Modulating human proteinase activated receptor 2 with a novel antagonist (GB88) and agonist (GB110). Br J Pharmacol. 2012 Mar; 165(5):1413-23.

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