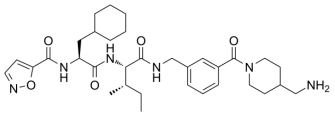
GB-110

Cat. No.:	HY-120528
CAS No.:	1252806-70-4
Molecular Formula:	$C_{33}H_{48}N_6O_5$
Molecular Weight:	608.77
Target:	Protease-Activated Receptor (PAR)
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GB-110 is a potent, orally active, and nonpeptidic protease activated receptor 2 (PAR2) agonist. GB-110 selectively induces PAR2-mediated intracellular Ca^{2+} release in HT29 cells with an EC_{50} of 0.28 μM[1].
IC_{50} & Target	Protease activated receptor 2[1]
In Vitro	In an intracellular Ca^{2+} (iCa^{2+}) mobilization assay using HT29 colon cancer cells, GB110 (EC_{50} 240±20 nM; pEC_{50} 6.7±0.05) is equipotent with the peptide agonist 2f-LIGRLO-NH2 (EC_{50} 210±30 nM; pEC_{50} 6.6±0.05), 10-fold more potent than SLIGRL-NH2, but ~35-fold less potent than trypsin (EC_{50} 6±0.5 nM; pEC_{50} 8.2±0.8)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Barry GD, et al. Novel agonists and antagonists for human protease activated receptor 2. J Med Chem. 2010 Oct 28;53(20):7428-40.

[2]. 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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