

Product Data Sheet

Product Name: GB-110 hydrochloride

Cat. No.: GC38329

Chemical Properties

Cas. No.

SMILES O=C(C1=CC=NO1)N[C@@H](CC2CCCCC2)C(N[C@@H]([C@@H](C)CC)C(NCC3=C=C(CC(C(N4CCC(CN)CC4)=O)=C3)=O)=O.Cl

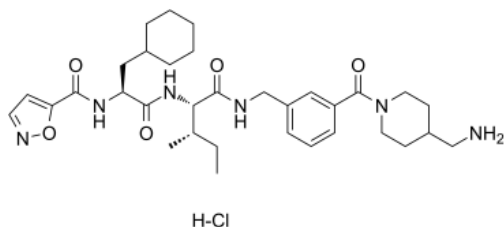
Formula $C_{33}H_{49}ClN_6O_5$ M.Wt 645.23

Solubility DMSO: 125 mg/mL (193.73 mM) Storage 4°C, sealed storage, away from moisture

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

GB-110 hydrochloride is a potent, orally active, and nonpeptidic protease activated receptor 2 (PAR2) agonist. GB-110 hydrochloride selectively induces PAR2-mediated intracellular Ca^{2+} release in HT29 cells with an EC_{50} of 0.28 μM [1].

In an intracellular Ca^{2+} (iCa^{2+}) mobilization assay using HT29 colon cancer cells, GB110 (EC_{50}

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

240±20 nM; pEC50 6.7±0.05) is equipotent with the peptide agonist 2f-LIGRLO-NH2 (EC50 210±30 nM; pEC50 6.6±0.05), 10-fold more potent than SLIGRL-NH2, but ~35-fold less potent than trypsin (EC50 6±0.5 nM; pEC50 8.2±0.8)[2].

[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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA