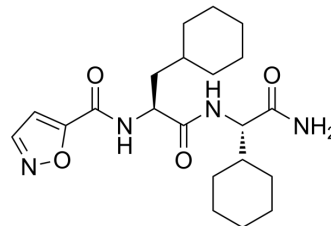


AY77

Cat. No.:	HY-138951
CAS No.:	1835734-92-3
Molecular Formula:	C ₂₁ H ₃₂ N ₄ O ₄
Molecular Weight:	404.5
Sequence:	{5-Isoxazolylcarbonyl-Cha}-{Chg}-NH ₂
Sequence Shortening:	{5-Isoxazolylcarbonyl-Cha}-{Chg}-NH ₂
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	AY77 is a calcium-biased PAR2 agonist. AY77 shows an EC ₅₀ of 0.17 and 2 nM in PAR2-mediated the activation in the Gq pathway and recruitment of β-arrestin-2, respectively. AY77 potently induces intracellular Ca ²⁺ release ^{[1][2]} .
IC₅₀ & Target	PAR2 ^[1]

REFERENCES

- [1]. Klösel I, et al. Discovery of Novel Nonpeptidic PAR2 Ligands. ACS Med Chem Lett. 2020 May 22;11(6):1316-1323.
- [2]. Jiang Y, et al. Biased Signaling by Agonists of Protease Activated Receptor 2. ACS Chem Biol. 2017 May 19;12(5):1217-1226.

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

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