

GR 87389

Cat. No.:	HY-P3853
CAS No.:	141663-86-7
Molecular Formula:	C ₄₇ H ₆₅ N ₉ O ₉
Molecular Weight:	900.07
Sequence Shortening:	{Boc}-AA-{D-Trp}-F-{D-Pro}-P-{Nle}-NH ₂
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	GR 87389 is a potent NK2 receptor antagonist. GR 87389 antagonized GA 64349-induced smooth muscle strips contractions in a competitive manner in the human detrusor, prostate and prostatic urethra ^{[1][2]} .
IC₅₀ & Target	NK2
In Vitro	GR 87389 is a non-peptide and peptide tachykinin antagonist with K _i values of 4.0, 5.2, and 14 nM for hippocampus, urinary bladder and duodenum, respectively ^[1] . GR 87389 (30-300 nM) antagonized GA 64349-induced smooth muscle strips contractions in human isolated detrusor, prostate and prostatic urethra ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Saffroy M, et, al. Presence of NK2 binding sites in the rat brain. J Neurochem. 2001 Dec;79(5):985-96.

[2]. Palea S, et, al. Pharmacological characterization of tachykinin NK2 receptors on isolated human urinary bladder, prostatic urethra and prostate. J Pharmacol Exp Ther. 1996 May;277(2):700-5.

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

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