

## GR 64349

Cat. No.:	HY-P1278
CAS No.:	137593-52-3
Molecular Formula:	C <sub>42</sub> H <sub>68</sub> N <sub>10</sub> O <sub>11</sub> S
Molecular Weight:	921.11
Sequence:	Lys-Asp-Ser-Phe-Val-{Aaa}-Leu-Met-NH <sub>2</sub>
Sequence Shortening:	KDSFV{Aaa}LM-NH <sub>2</sub>
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

## BIOLOGICAL ACTIVITY

## Description

GR 64349 is a potent and highly selective NK<sub>2</sub> receptor peptide antagonist, with an EC<sub>50</sub> of 3.7 nM in rat colon. GR 64349 exhibits selectivity >1000 and >300-fold with respect to NK<sub>1</sub> and NK<sub>3</sub> receptors, respectively<sup>[1][2]</sup>.

## REFERENCES

- [1]. Y Chang, et al. Tachykinin receptor subtypes in the isolated guinea pig heart and their role in mediating responses to neurokinin A. J Pharmacol Exp Ther. 2000 Jul;294(1):147-54.
- [2]. M J Deal, et al. Conformationally constrained tachykinin analogues: potent and highly selective neurokinin NK-2 receptor agonists. J Med Chem. 1992 Oct 30;35(22):4195-204.

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

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