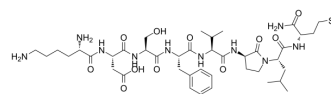


## GR 64349

**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)

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 50 mg/mL (54.28 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass		1 mg	5 mg	10 mg
	Concentration				
	1 mM		1.0856 mL	5.4282 mL	10.8565 mL
	5 mM		0.2171 mL	1.0856 mL	2.1713 mL
	10 mM		0.1086 mL	0.5428 mL	1.0856 mL

Please refer to the solubility information to select the appropriate solvent.

### 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.

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

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