

K41498

## Chemical Properties

CAS No. : 434938-41-7

Formula: C162H276N48O46

Molecular Weight: 3632.26

[D-Phe]-HLLRK-(Nle)-IEIEKQEKQQAANNRLLLDI-NH<sub>2</sub>

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Potent and highly selective CRF2 receptor antagonist (Ki values are 0.66, 0.62 and 425 nM for human CRF2 $\alpha$ , CRF2 $\beta$ and CRF1 receptors respectively). Inhibits sauvagine-stimulated cAMP accumulation in hCRF2 $\alpha$ - and hCRF2 $\beta$ -expressing cells. In rats in vivo, blocks urocortin-induced hypotension following systemic administration.
Targets(IC50)	CRFR

## Solubility Information

Solubility	H2O: 5 mg/mL (1.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2753 mL	1.3766 mL	2.7531 mL
5 mM	0.0551 mL	0.2753 mL	0.5506 mL
10 mM	0.0275 mL	0.1377 mL	0.2753 mL
50 mM	0.0055 mL	0.0275 mL	0.0551 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ruhmann et al (2002) Design, synthesis and pharmacological characterization of new highly selective CRF2 antagonists: development of 123I-K31440 as a potential SPECT ligand. Peptides 23 453 PMID:

Lawrence et al (2002) The highly selective CRF2 receptor antagonist K41498 binds to presynaptic CRF2 receptors in rat brain. Br.J.Pharmacol. 136 896 PMID:

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