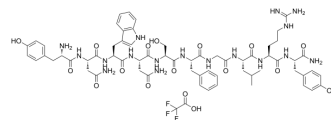


Kisspeptin-10, rat TFA

Cat. No.:	HY-P1197A
Molecular Formula:	C ₆₅ H ₈₄ F ₃ N ₁₇ O ₁₇
Molecular Weight:	1432.46
Sequence:	Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Tyr-NH ₂
Sequence Shortening:	YNWNSFGLRY-NH ₂
Target:	Kisspeptin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (34.90 mM)
 H₂O : 10 mg/mL (6.98 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.6981 mL	3.4905 mL	6.9810 mL
	5 mM	0.1396 mL	0.6981 mL	1.3962 mL
	10 mM	0.0698 mL	0.3490 mL	0.6981 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (1.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (1.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (1.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Kisspeptin-10, rat TFA is a potent vasoconstrictor and inhibitor of angiogenesis. Kisspeptin-10, rat TFA is a ligand for the rodent kisspeptin receptor (KISS1, GPR54). Kisspeptin-10 TFA reduces Methotrexate-induced reproductive toxicity as a potential antioxidant compound^[1].

IC₅₀ & TargetGPR54^[1]
Angiogenesis^[1]

REFERENCES

[1]. Güvenç M, et al. Ameliorating effect of kisspeptin-10 on methotrexate-induced sperm damages and testicular oxidative stress in rats. *Andrologia*. 2018 Oct;50(8):e13057.

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

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