

Kisspeptin-54(human) TFA

Cat. No.:	HY-P1022A
Molecular Formula:	$C_{258}H_{401}N_{79}O_{78} \cdot C_2H_3F_3O_2$
Molecular Weight:	5971.45
Sequence:	Gly-Thr-Ser-Leu-Ser-Pro-Pro-Pro-Glu-Ser-Ser-Gly-Ser-Arg-Gln-Gln-Pro-Gly-Leu-Ser-Ala-Pro-His-Ser-Arg-Gln-Ile-Pro-Ala-Pro-Gln-Gly-Ala-Val-Leu-Val-Gln-Arg-Glu-Lys-Asp-Leu-Pro-Asn-Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Phe-NH ₂ GTSLSPPPESGSRQQPGLSAPHSRQIPAPQGAVLVQREKDLPNYNWNSFGLRF-NH ₂ (TFA salt)
Sequence Shortening:	GTSLSPPPESGSRQQPGLSAPHSRQIPAPQGAVLVQREKDLPNYNWNSFGLRF-NH ₂
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
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 ₂ O : 50 mg/mL (8.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	0.1675 mL	0.8373 mL	1.6746 mL	
		5 mM	0.0335 mL	0.1675 mL	0.3349 mL	
		10 mM	---	---	---	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	Kisspeptin-54(human) TFA (Metastatin(human) TFA) is an endogenous ligand for kisspeptin receptor (KISS1, GPR54). Kisspeptin-54(human) TFA binds to rat and human GPR54 receptors with K _i values of 1.81 nM and 1.45 nM, respectively. Kisspeptin-54(human) TFA hinders tumor metastasis and stimulates gonadotropin secretion ^{[1][2]} .
IC ₅₀ & Target	Ki: 1.81 nM (Rat GPR54) and 1.45 nM (Human GPR54) ^[2]

REFERENCES

[1]. M L Gottsch, et al. A Role for Kisspeptins in the Regulation of Gonadotropin Secretion in the Mouse. Endocrinology. 2004 Sep;145(9):4073-7.

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

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