

Kisspeptin-54(human)

Cat. No.:	HY-P1022
CAS No.:	374683-24-6
Molecular Formula:	C ₂₅₈ H ₄₀₁ N ₇₉ O ₇₈
Molecular Weight:	5857.43
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
Sequence Shortening:	GTSLSPPESSGSRQQPGLSAPHSRQIPAPQGAVLVQREKDLPNYNWNSFGLRF-NH ₂
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Kisspeptin-54(human) (Metastin(human)) is an endogenous ligand for kisspeptin receptor (KISS1, GPR54). Kisspeptin-54(human) binds to rat and human GPR54 receptors with K _i values of 1.81 nM and 1.45 nM, respectively. Kisspeptin-54(human) 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.

[2]. M Kotani, et al. The Metastasis Suppressor Gene KiSS-1 Encodes Kisspeptins, the Natural Ligands of the Orphan G Protein-Coupled Receptor GPR54. *J Biol Chem*. 2001 Sep 14;276(37):34631-6.

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

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