10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Kisspeptin-10 Metastin (45-54), Human
Synthetic Peptide
Catalog # SP3446b

Specification

Kisspeptin-10 Metastin (45-54), Human - Product Information

Primary Accession	Q15726
Sequence	**NH2-YNWNSFGLRF-CONH2**

Kisspeptin-10 Metastin (45-54), Human - Additional Information

Gene ID 3814

Other Names
Metastasis-suppressor KiSS-1, Kisspeptin-1, Metastin, Kisspeptin-54, Kisspeptin-14, Kisspeptin-13, Kisspeptin-10, KISS1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Kisspeptin-10 Metastin (45-54), Human - Protein Information

Name KISS1

Function
Metastasis suppressor protein in malignant melanomas and in some breast cancers. May regulate events downstream of cell-matrix adhesion, perhaps involving cytoskeletal reorganization. Generates a C- terminally amidated peptide, metastin which functions as the endogenous ligand of the G-protein coupled receptor GPR54. Activation of the receptor inhibits cell proliferation and cell migration, key characteristics of tumor metastasis. Kp-10 is a decapeptide derived from the primary translation product, isolated in conditioned medium of first trimester trophoblast. Kp-10, but not other kisspeptins, increased intracellular Ca(2+) levels in isolated first trimester trophoblasts. Kp-10 is a paracrine/endocrine regulator in fine-tuning trophoblast invasion generated by the trophoblast itself. The receptor is also essential for normal gonadotropin-released hormone physiology and for puberty. The hypothalamic KiSS1/GPR54 system is a pivotal factor in central regulation of the gonadotropic axis at puberty and in adulthood.

Cellular Location
Secreted.

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Tissue Location

Very high expression in placenta, with the next highest level in testis and moderate levels in pancreas, liver, small intestine and brain at much lower levels. Expression levels increased in both early placentas and molar pregnancies and are reduced in choriocarcinoma cells. Expressed at higher levels in first trimester trophoblasts than at term of gestation, but only expressed in the villous trophoblast.

Kisspeptin-10 Metastin (45-54), Human - Images