

Product datasheet

Recombinant Human Kisspeptin protein ab78765

Overview

Product name	Recombinant Human Kisspeptin protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Species	Human
Sequence	MEPLEKVASV GNSRPTGQQL ESLGLLAPGE QSLPCTERKP AATARLSRRG TSLSPPPSS GSPQQPLSA PHSRQIPAPQ GAVLVQREKD LPNYNWNSFG LRFKREAAP GNHGRSAGRG
Amino acids	1 to 120

Specifications

Our [Abpromise guarantee](#) covers the use of **ab78765** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Purity	> 90 % SDS-PAGE. ab78765 is purified using conventional chromatography techniques.
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 10% Glycerol, 20mM Tris, 1mM DTT, pH 8.0
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General Info

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.
Tissue specificity	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.
Sequence similarities	Belongs to the KiSS1 family.
Post-translational modifications	Processed by MMP2 and MMP9.
Cellular localization	Secreted.

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