

KISS1 Human

Description: KISS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 120 amino acids (20-138) and having a molecular mass of 12.6 Dalton. The KISS1 is purified by proprietary chromatographic techniques.

Catalog #: PRPS-426

For research use only.

Synonyms: Kisspeptin-1, KISS-1, METASTIN, Metastasis-suppressor KiSS-1, KISS1, MGC39258.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MEPLKVASV GNSRPTGQQL ESLGLLAPGE QSLPCTERKP
AATARLSRRG TSLSPPESS GSPQQPGLSA PHSRQIPAPQ GAVLVQREKD LPNYNWNSFG
LRFKREAAAP GNHGRSAGRG.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.

Stability:

KISS1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

KISS1 is a metastasis suppressor protein that suppresses metastases of melanomas and breast carcinomas without affecting tumorigenicity. KISS1 functions to inhibit chemotaxis and invasion, attenuating metastasis in malignant melanomas. KISS1 is involved in the regulation of cell-matrix adhesion. KISS1 plays a role in cytoskeletal reorganization. A polymorphism in the terminal exon of KISS1 mRNA results in two protein isoforms. Expression of KiSS1 is localized to specific regions of the hypothalamus in numerous species and is regulated by gonadal steroids and across the estrous cycle. KISS1 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.

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