
Product Data Sheet

Product Name: KISS1 Human
 Cat. No.: GP23748
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kisspeptin-1; KISS-1; METASTIN; Metastasis-suppressor KiSS-1; KISS1; MGC39258.		
Amino Acid Sequence	MEPLEKVASV GNSRPTGQQL ESLGLLAPGE QSLPCTERKP AATARLSRRG TSLSPPESS GSPQQPGLSA PHSRQIPAPQ GAVLVQREKD LPNYNWNSFG LRFKREAAP GNHGRSAGRG.		
Formulation	The protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

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

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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.

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