
Product Data Sheet

Product Name: MCTS1 Human
 Cat. No.: GP23902
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MCT-1; MCT1; Malignant T-cell-amplified sequence 1; Multiple copies T-cell malignancies.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFKKFDE KENVSNCIQL KTSVIKGIKN QLIEQFPGIE PWLNQIMPCK DPVKIVRCHE HIEILTVNGE LLFFRQREGP FYPTLRLLHK YPFILPHQQV DKGAIKFVLS GANIMCPGLT SPGAKLYPAA VDTIVAIMAE GKQHALCVGV MKMSAEDIEK VNKGIGIENI HYLNDGLWHM KTYK.		
Formulation	MCTF1 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Malignant T cell amplified sequence 1 (MCTS1) is an Anti-oncogene which takes part in cell cycle regulation by means of decreasing cell doubling time and encouraging-dependent growth and also by shorting the duration of G1 transit time and G1/S transition. MCTS1 also plays a role as translation enhancer. MCTS1 recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, thereupon altering the mRNA translation profile; Up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant.

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). Avoid multiple freeze-thaw cycles.

Background

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

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MCTF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 204 amino acids (1-181 a.a.) and having a molecular mass of 22.9kDa. MCTF1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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