

MCTS1, 1-181aa, Human, His tag, E.coli

Cat.NO.: TP02932

3th Edition

Synonyms: Malignant T cell amplified sequence 1, MCT-1, MCT1

Description: Malignant T cell amplified sequence 1, also known as MCTS1, plays a role as translation enhancer; Recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile; Up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant. Recombinant human MCTS1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Molecular Weight: 22.9 kDa (204aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMFKKFDEKENVSNCIQLKTSVIKGIKNQLIEQFPGIEPWLNQIMPKKDPVKIVR
CHEHIEILTVNGELLFFRQREGPFYPTLRLLHKYPPFILPHQQVDKGAIKFVLSGANIMCPGLTSPGAKLYPAAVDTIVAI
MAEGKQHALCVGMKMSAEDIEKVNKGIGIENIHYLNDGLWHMKTYK

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.