

JTB, 31-105aa, Human, His tag, E.coli**Cat.NO.: TP02712**

3th Edition

Synonyms: Jumping translocation breakpoint, hJT, HJTb, HSPC222, PAR

Description: Jumping translocation breakpoint, also known as JTB, is required for normal cytokinesis during mitosis. This protein plays a role in the regulation of cell proliferation. This protein may be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. It inhibits apoptosis induced by TGFB1. Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential. Recombinant human JTB 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, 10% glycerol, 1mM DTT

Molecular Weight: 10.7 kDa (98aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSEAPVQEEKLSASTSNLPCWLVEEFVVAEECSNFRKTTPECGPTGYVE
KITCSSSKRNEFKSCRSALMEQRL

Purity: > 95% by HPLC

Concentration: 0.25 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.