

STYX, 26-223aa, Human, His tag, E.coli

Cat.NO.: TP04084

3th Edition

Synonyms: Serine/threonine/tyrosine-interacting protein, FLJ42934

Description: STYX, also known as serine/threonine/tyrosine-interacting protein, belongs to the protein-tyrosine phosphatase family. It contains a Gly residue instead of a conserved Cys residue in the dsPTPase catalytic loop which renders it catalytically inactive as a phosphatase. The binding pocket is however sufficiently preserved to bind phosphorylated substrates, and maybe protect them from phosphatases. It seems to play a role in spermiogenesis. Recombinant human STYX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Molecular Weight: 25.0 kDa (221aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHSHMRREMQEILPGLFLGPYSSAMKSKLPVLQKHGITHIICIRQNIENFIKPNFQQL
FRYLVLADIADNPVENIIRFFPMTKEFIDGSLQMGGKVLVHGNAGISRSAAFVIAYIMETFGMKYRDAFAYVQERRFCIN
PNAGFVHQLQEYEA IYLAKLTIQMMSPLQIERSLSVHSGTTGSLKRTHEEEDDFGTMQVATAQNG

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.