Recombinant human STYX protein
Catalog Number: ATGP1443

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-223aa

UniProt No.
Q8WUJ0

NCBI Accession No.
NP_660294

Alternative Names
Serine/threonine/tyrosine-interacting protein, FLJ42934

PRODUCT SPECIFICATION

Molecular Weight
28.0 kDa (247aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH8.5) containing 40% glycerol, 1mM DTT, 0.1M NaCl

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Recombinant human STYX protein
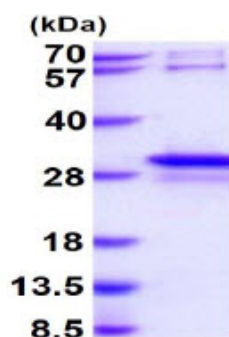## Catalog Number: ATGP1443

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHMEDVKL EFPSLPQCKE DAEEWTYPMR REMQEILPGL FLGPYSSAMK SKLPVLQKHG ITHIICIRQN IEANFIKPNF QQLFRYLVLD IADNPVENII RFFPMTKEFI DGSLQMGGKV LVHGNAGISR SAAFVIAYIM ETFGMKYRDA FAYVQERRFC INPNAGFVHQ LQEYEAIYLA KLTIQMMSPL QIERSLSVHS GTTGSLKRTH EEEDDFGTMQ VATAQNG

General References

Wishart MJ. et al. (1995) J. Biol. Chem. 270:26782-26785.
Wishart MJ. et al. (2002) Proc Natl Acad Sci u S A. 99:2112-2117.

DATA

SDS-PAGE

15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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