

## STYX Human

**Description:** STYX Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 247 amino acids (1-223) and having a molecular mass of 28kDa. STYX is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-592

For research use only.

**Synonyms:** Serine/threonine/tyrosine-interacting protein, Protein tyrosine phosphatase-like protein, STYX, FLJ42934.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMEDVKL EFPSLPQCKE  
DAEEWTPMR REMQEILPGL FLGPYSSAMK SKLPVLQKHG ITHIICIRQN IEANFIKPNF  
QQLFRYLVD IADNPVENII RFFPMTKEFI DGSLQMGGKV LVHGNAGISR SAAFVIAYIM  
ETFGMKYRDA FAYVQERRFCINPAGFVHQ LQEYEAIIYA KLTIQMMSP LQIERSLVHS  
GTTGSLKRTH EEE

**Purity:** Greater than 85% as determined by SDS-PAGE.

### Formulation:

The STYX solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 1mM DTT and 0.1M NaCl.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Serine/threonine/tyrosine-interacting protein (STYX) is a member of the protein-tyrosine phosphatase family. STYX contains a Gly residue instead of a conserved Cys residue in the dsPTPase catalytic loop which makes it catalytically inactive as a phosphatase. On the other hand, the binding pocket is adequately preserved to bind phosphorylated substrates, and may protect them from phosphatases. STYX may have a role in spermiogenesis. STYX is a possible pseudophosphatase.

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