

## STYX Human (26-223)

**Description:** STYX Human Recombinant produced in E. coli is a single polypeptide chain containing 221 amino acids (26-223) and having a molecular mass of 25.0kDa. STYX is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-597

**Synonyms:** Serine/threonine/tyrosine-interacting protein.

For research use only.

**Source:** E.coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH SHMRREMQEI LPGLFLGPYS  
SAMKSKLPVL QKHGITHIC IRQNIENFI KPNFQQLFRY LVLDIADNPV ENIIRFFPMT  
KEFIDGSLQM GSKVLVHGNA GISRSAFVI AYIMETFGMK YRDAFAYVQE RRFCINPNAG  
FVHQLQEYEA IYLAKLTIQM MSPLQIERSL SVHSGTTGSL KRTHEEEDDF GTMQVATAQN G

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

### Formulation:

The STYX solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 40% glycerol.

### 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:

STYX is a member of the protein-tyrosine phosphatase family. STYX has a Gly residue instead of a conserved Cys residue in the dsPase catalytic loop which renders it catalytically inactive as a phosphatase. Nevertheless, the binding pocket is adequately preserved to bind phosphorylated substrates, and possibly protect them from phosphatases. STYX takes part in spermiogenesis.

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