
Product Data Sheet

Product Name: STYX Human (26-223)

Cat. No.: GP22266

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine/threonine/tyrosine-interacting protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH SHMRREMQEI LPGLFLGPYS SAMKSKLPVL QKHGITHIIC IRQNIEANFI KPNFQQLFRY LVLDIADNPV ENIIRFFPMT KEFIDGSLQM GGKVLVHGNA GISRSAAFVI AYIMETFGMK YRDAFAYVQE RRF CINPNAG FVHQLQEYEA IYLAKLTIQM MSPLQIERSL SVHSGTTGSL KRTHEEEDDF GTMQVATAQN G		
Formulation	The STYX solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 40% glycerol.		

Introduction

STYX is a member of the protein-tyrosine phosphatase family. STYX has a Gly residue instead of a conserved Cys residue in the dsPTPase 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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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