
Product Data Sheet

Product Name: STYX Human
 Cat. No.: GP22265
 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; Protein tyrosine phosphatase-like protein; STYX; FLJ42934.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEMEDVKL EFPSLPQCKE DAEEWYTPMR REMQEILPGL FLGPYSSAMK SKLPVLQKHG ITHIICIRQN IEANFIKPNF QQLFRYLVLVD IADNPVENII RFFPMTKEFI DGSLQMGGKV LVHGNAGISR SAAFVIAYIM ETFGMKYRDA FAYVQERRFCINPNAGFVHQ LQEYEAIIYA KLTIQMMSPL QIERSLSVHS GTTGLSKRTH EEEDDFGTMQ VATAQNG.		
Formulation	The STYX solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 1mM DTT and 0.1M NaCl.		

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.

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, non-glycosylated polypeptide chain containing 247 amino acids (1-223) and having a molecular mass of 28kDa. STYX is

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fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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