
Product Data Sheet

Product Name: STK16 Human
 Cat. No.: GP22628
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine/threonine-protein kinase 16; Myristoylated and palmitoylated serine/threonine-protein kinase; MPSK; Protein kinase PKL12; TGF-beta-stimulated factor 1; TSF-1; Tyrosine-protein kinase STK16; hPSK; STK16; MPSK1; PKL12; TSF1; KRCT.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMGHALC VCSRGTVIID NKRYLFIQKL GEGGFSYVDL VEGLHDGHFY ALKRILCHEQ QDREEAQREA DMHRLFNHPN ILRLVAYCLR ERGAKHEAWL LLPFFKRGTL WNEIERLKDK GNFLTEDQIL WLLLGICRGL EAIHAKGYAH RDLKPTNILL GDEGQPVLM D LGSMNQACIH VEGSRQALT QDWAAQRCTI SYRAPELFSV QSHCVIDERT DVWSLGCVLY AMMFGE GPYD MVFQKGDSVA LAVQNQLSIP QSPRHSSALR QLLNSMMTVD PHQRPHIPLL LSQLEALQPP APGQHTTQI.		
Formulation	STK16 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

Serine/threonine-protein kinase 16 (STK16) is a membrane-associated protein kinase which phosphorylates on serine and threonine residues. STK16 is involved in secretory vesicle trafficking or intracellular signaling. Furthermore, the STK16 protein may have a role in regulating stromal-epithelial interactions which occur during ductal morphogenesis in the mammary gland. STK16 can autophosphorylate on Tyr residue; it is however unclear whether STK16 has tyrosine-protein kinase toward other proteins. STK16 may also be involved in TGF-beta signaling.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

STK16 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 329 amino acids (1-305 a.a) and having a molecular mass of 37.2kDa. STK16 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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