Product Data Sheet

Product Name:	SOS1 Human
Cat. No.:	GP24661
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SOS Ras/Rac Guanine Nucleotide Exchange Factor 1; Gingival Fibromatosis; Hereditary; 1; SOS-1; Son Of Sevenless Homolog 1 (Drosophila); Guanine Nucleotide Exchange Factor; Son Of Sevenless Homolog 1; GINGF; GGF1; GF1; HGF; NS4; Son of sevenless homolog 1.		
Amino Acid Sequence	ADPEEQMRLP SADVYRFAEP DSEENIIFEE NMQPKAGIPI IKAGTVIKLI ERLTYHMYAD PNFVRTFLTT YRSFCKPQEL LSLIIERFEI PEPEPTEADR IAIENGDQPL SAELKRFRKE YIQPVQLRVL NVCRHWVEHH FYDFERDAYL LQRMEEFIGT VRGKAMKKWV ESITKIIQRK KIARDNGPGH NITFQSSPPT VEWHISRPGH IETFDLLTLH PIEIARQLTL LESDLYRAVQ PSELVGSVWT KEDKEINSPN LLKMIRHTTN LTLWFEKCIV ETENLEERVA VVSRIIEILQ VFQELNNFNG VLEVVSAMNS SPVYRLDHTF EQIPSRQKKI LEEAHELSED HYKKYLAKLR SINPPCVPFF GIYLTNILKT EEGNPEVLKR HGKELINFSK RRKVAEITGE IQQYQNQPYC LRVESDIKRF FENLNPMGNS MEKEFTDYLF NKSLEIEPRN PKPLPRFPKK YSYPLKSPGV RPSNPRPGTH HHHHH.		
Formulation	SOS1 protein solution (0.25mg/ml) contains 30% glycerol, 0.1M NaCl, 1mM DTT & 0.2mM MgCl2.		

Introduction

SOS1, also known as Gingival Fibromatosis, is a Ras & Rac guanine nucleotide exchange factor. SOS1 is comprised of a number of significant domains. The REM and CDC25 domains provide the catalytic activity of SOS1 towards Ras and the histone fold DH/PH (Dbl homology & Pleckstrin homology) domains function, in tandem, to stimulate GTP/GDP exchange for Rac. Moreover, binding of GTP activates Ras proteins, and subsequent hydrolysis of the bound GTP to GDP and phosphate inactivates signaling by these proteins. GTP binding can be catalyzed by guanine nucleotide exchange factors for

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RAS, and GTP hydrolysis can be enhanced by GTPase-activating proteins.

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

SOS1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 495 amino acids (564-1049a.a.) and having a molecular mass of 58.0kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).SOS1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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