9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SOS1 Human

Son Of Sevenless Homolog 1 Human Recombinant
RCP2194

Product Overview

Name	SOS1 Human
Description	
Son Of Sevenless Homolog 1 Human Recombinant	
Accession (Primary)	Q07889
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.	
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 RAS, and GTP hydrolysis can be enhanced by GTPase-activating proteins.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
SOS1 protein solution (0.25mg/ml) contains 20mM Tris-HCl (pH 7.5), 30% glycerol, 0.1M NaCl, 1mM DTT & 0.2mM MgCl2.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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ADP EEQMRLP 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 RPSNPRPGT H HHHHH.

Precautions

SOS1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q07889)