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SOS1 Protein (AA 1-1319) (Strep Tag)



Go to Product pag

Overview

Quantity:	1 mg
Target:	SOS1
Protein Characteristics:	AA 1-1319
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOS1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MQAQQLPYEF FSEENAPKWR GLLVPALKKV QGQVHPTLES NDDALQYVEE LILQLLNMLC
QAQPRSASDV EERVQKSFPH PIDKWAIADA QSAIEKRKRR NPLSLPAERI HHLLREVLGY
KIDHQVSVYI VAVLEYISAD ILKLVGNYVR NIRHYEITKQ DIKVAMCADK VLMDMFHQDV
EDINILSLTD EEPSTSGEQT YYDLVKAFMA EIRQYIRELN LIIKVFREPF VSNSKLFSSN DVENIFSRIV
DIHELSVKLL GHIEDTVEMT DEGSPHPLVG SCFEDLAEEL AFDPYESYAR DILRPGFHGH
FLSQLSKPGA ALYLQSIGEG FKEAVQYVLP RLLLAPVYHC LHYFELLKQL EEKSEDQEDK
ECMKQAITAL LNVQSGMEKI CSKSLAKRRL SESACRFYSQ QMKGKQLAIK KMNEIQKNID
GWEGKDIGQC CNEFIMEGTL TRVGAKHERH IFLFDGLMIC CKSNHGQPRL PGASSAEYRL
KEKFFMRKVQ INDKDDTSEY KHAFEIILKD GNSVIFSAKS AEEKNNWMAA LISLQYRSTL
ERMLDVTVLQ EEKEEQMRLP SAEVYRFAEP DSEENILFEE NVQPKAGIPI IKAGTVLKLI
ERLTYHMYAD PNFVRTFLTT YRSFCRPQEL LSLLIERFEI PEPEPTEADR IAIENGDQPL
SAELKRFRKE YIQPVQLRVL NVCRHWVEHH FYDFERDADL LQRMEEFIGT VRGKAMKKWV

ESITKIIQRK KIARDNGPGH NITFQSSPPT VEWHISRPGH IETFDLLTLH PIEIARQLTL
LESDLYRAVQ PSELVGSVWT KEDKEINSPN LLKMIRHTTN LTLWFEKCIV ETENLEERVA
VVSRIIEILQ VFQELNNFNG VLEVVSAMNS SPVYRLDHTF EQIPSRQKKI LEEAHELSED
HYKKYLAKLR SINPPCVPFF GIYLTNILKT EEGNPEVLRR HGKELINFSK RRRVAEITGE
IQQYQNQPYC LRVEPDIKRF FENLNPMGNS MEKEFTDYLF NKSLEIEPRH PKPLPRFPKK
YSYPLKSPGV RPSNPRPGTM RHPTPLQQEP RKISYSRIPE SETESTASAP NSPRTPLTPP
PASGTSSNTD VCSVFDSDHS ASPFHSRSAS VSSISLSKGT DEVPVPPPVP PRRRPESAPA
ESSPSKIMSK HLDSPPAIPP RQPTSKAYSP RYSISDRTSI SDPPESPPLL PPREPVRTPD
VFSSSPLHLQ PPPLGKKSDH GNAFFPNSPS PFTPPPPQTP SPHGTRRHLP SPPLTQEMDL
HSIAGPPVPP RQSTSQLIPK LPPKTYKREH THPSMHRDGP PLLENAHSS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system -

all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	SOS1
Alternative Name:	Sos1 (SOS1 Products)
Background:	Son of sevenless homolog 1 (SOS-1) (mSOS-1),FUNCTION: Promotes the exchange of Rasbound GDP by GTP. Probably by promoting Ras activation, regulates phosphorylation of MAP kinase MAPK3 in response to EGF (By similarity). Catalytic component of a trimeric complex that participates in transduction of signals from Ras to Rac by promoting the Rac-specific guanine nucleotide exchange factor (GEF) activity (PubMed:10499589, PubMed:11524436). {ECO:0000250 UniProtKB:Q07889, ECO:0000269 PubMed:10499589, ECO:0000269 PubMed:11524436}.
Molecular Weight:	150.9 kDa
UniProt:	Q62245
Pathways:	RTK Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Hepatitis C, Signaling Events mediated by VEGFR1 and

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VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, BCR Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)