

Recombinant Human SOS1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50919

Size: 10ug, 100ug

Protein Name: Son of sevenless homolog 1 (SOS-1)

Synonym: SOS1

UniProt ID: Q07889

UniProt Link: www.uniprot.org/uniprotkb/Q07889/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1333 AA

Molecular Weight: 152 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MQAQQLPYEFFSEENAPKWRGLLVPALKKVQGGVHPTLESNDDALQYVEELILQLLNMLCQAQPRS
ASDVEERVQKSFPHPIDKWAIADAQSAIEKRKRNPPLSLPVEKIHPLLKEVLGYKIDHQVSVYIVAVLE
YISADILKLVGNVVRNIRHYEITKQDIKAMCADKVLMDMFHQDVEDINILSLTDEEPSTSGEQTYIDL
VKAFMAEIRQYIRELNLIKVFREPFSNSKLFSSANDVENIFSRIVDIHEL SVKLLGHIEDTVEMTDEGSP
HPLVGSCFEDLAEELAFDPYESYARDILRPGFHDRFLSQLSKPGAALYLQSIGEGFKEAVQYVLPRL
LAPVYHCLHYFELLKQLEEKSEDQEDKECLKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQ
QMKGKQLAIKKMNEIQKNIDGWEGKDIGQCCNEFIMEGTLTRVGAKHERHIFLFDGLMICCKSNHGQ
PRLPGASNAEYRLKEKFFMRKVQINDKDDTNEYKHA FEIILKDENS VIFS AKSAAEEKNNWMAALISLQ
YRSTLERMLDVTMLQEEKEEQMRLPSADVYRFAEPDSEENIIFEENMQPKAGIPIIKAGTVIKLIERLT
YHMYADPNFVRTFLTTRYRSFCKPQELLSLIERFEIPEPEPTADRIAIENGDQPLSAELKRFRKEYIQPV
QLRVLNVCRHWVEHHFYDFERDAYLLQRMEEFIGTVRGKAMKKWVESITKIIQRKKIARDNGPGHNI
TFQSSPPTVEWHISRPGHIETFDLLTLHPIEIARQLTLLESDLYRAVQPSELVGSVWTKEDKEINSPNL
LKMIRHTTNLTWFEKCVETENLEERVAVVSRIIEILQVFQELNNFNGVLEVVSAMNSSPVYRLDHTF
EQIPSRQKKILEEAHELSEDHYKKYLAKLRSINPPCVPFFGIYLTNLIKTEEGNPEVLKRHGKELINFSK
RRKVAEITGEIQYQNPYCLRVESDIKRFFENL NPMGNSMEKEFTDYLFNKSLEIEPRNPKPLPRFP
KKYSYPLKSPGVRPSNPRPGTMRHPTPLQEQPRKISYSRIPESETESTASAPNSPRTPLTPPPASGA
SSTTDVCSVFDSDHSSPFHSSNDTVFIQVTLPHGPRASVSSISLTGKTDEVPVPPPVPPRRRPESA
PAESSPSKIMSKHLDSPPAIPPRQPTSKAYSPRYSISDRTSISDPPEPSPLLPPPREPVRTPDVFSSSPL



HLQPPPLGKKSDHGNAFFPNSPSPFTPPPPQTPSPHGTRRHLPSPPLTQEVDLHSIAGPPVPPRQS
TSQHIPKLPKTYKREHThPSMHRDGPPLLENAHSS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Son of sevenless homolog 1 (SOS-1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Promotes the exchange of Ras-bound GDP by GTP (PubMed:8493579). Probably by promoting Ras activation, regulates phosphorylation of MAP kinase MAPK3/ERK1 in response to EGF (PubMed:17339331). 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 (By similarity).

Subcellular Localization: N/A

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.