

Datasheet for ABIN7546047
SGSM2 Protein (AA 1-1006) (His tag)



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Overview

Quantity:	1 mg
Target:	SGSM2
Protein Characteristics:	AA 1-1006
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGSM2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SGSM2 Protein expressed in mammalian cells.
Sequence:	<p>MGSAEDAVKE KLLWNVKKEV KQIMEEAVTR KFVHEDSSHI IALCGAVEAC LLHQLRRRAA GFLRSDKMAA LFTKVGKTCP VAGEICHKVQ ELQQQAEGRK PSGVSQEALR RQGSASGKAP ALSPQALKHV WVRTALIEKV LDKVVQYLAE NCSKYYEKEA LLADPVFGPI LASLLVGPCA LEYTKLKTAD HYWTDPSADE LVQRHRIRGP PTRQDSPAKR PALGIRKRHS SGSASEDLA ACARECVESL HQNSRTRLLY GKNHVLVQPK EDMEAVPGYL SLHQSAESLT LKWTPNQLMN GTLGDSELEK SVYWDYALVV PFSQVVCIHQ HQKSGGTLV LVSQDGIQRP PLHFPQGGHL LSFLSCLENG LLPRGQLEPP LWTQQGKGKV FPKLRKRSSI RSVDMEEEMGT GRATDYVFRI IYPGHRHEHN AGDMIEMQGF GPSLPAWHLE PLCSQGSSCL SCSSSSSPHA TPSHCSCIPD RLPLRLLCES MKRQIVSRAF YGWLACRHL STVRTHLSAL VHHSVIPDDR PPGASAGLTK DVWSKYQKDK KNYKELELLR QVYYGGIEHE IRKDVWPFLL GHYKFGMSKK EMEQVDAVVA ARYQQVLAEW KACEVVVRQR EREAHPATRT KFSSGSSIDS HVQRLIHRDS TISNDVFISV DDLEPPEPQD PEDSRPKPEQ EAGPGTPGTA VVEQQHSVEF DSPDSGLPSS RNYSVASGIQ</p>

Product Details

SSLDEGQSVG FEEEDGGGEE GSSGPGPAAH TLREPQDPSQ EKPQAGELEA GEELAAVCAA
AYTIELLDTV ALNLHRIDKD VQRCDRNYWY FTPPNLERLR DVMCSYVWEH LDVGYVQGMG
DLLAPLLVTL DNDQLAYSCF SHLMKRMSQN FPNGGAMDTM FANMRSLIQI LDELFELMH
QNGDYTHFYF CYRWFLDFK RELLYEDVFA VWEVIWAARH ISSEHFVLF I ALALVEAYRE
IIRDNNMDFT DIIKFFNERA EHHDAQEILR IARDLVHKVQ MLIENK **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: SGSM2

Alternative Name: SGSM2 ([SGSM2 Products](#))

Background: Small G protein signaling modulator 2 (RUN and TBC1 domain-containing protein 1),FUNCTION: Possesses GTPase activator activity towards RAB32, RAB33B and RAB38 (PubMed:26620560, PubMed:21808068). Regulates the trafficking of melanogenic enzymes TYR, TYRP1 and

Target Details

DCT/TYRP2 to melanosomes in melanocytes by inactivating RAB32 and RAB38. Inhibits RAB32 and RAB38 activation both directly by promoting their GTPase activity and indirectly by disrupting the RAB9A-HPS4 interaction which is required for RAB32/38 activation (PubMed:26620560). {ECO:0000269|PubMed:21808068, ECO:0000269|PubMed:26620560}.

Molecular Weight: 113.3 kDa

UniProt: [O43147](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months