

Datasheet for ABIN7554354

MSK2 Protein (AA 1-772) (His tag)



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Overview

Quantity:	1 mg
Target:	MSK2 (RPS6KA4)
Protein Characteristics:	AA 1-772
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MSK2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RPS6KA4 Protein expressed in mammalian cells.
Sequence:	<p>MGDEDDDESC AVELRITEAN LTGHEEKVSV ENFELLKVLG TGAYGKVFLV RKAGGHDAGK</p> <p>LYAMKVLRLA ALVQRAKTQE HTRTERSVLE LVRQAPFLVT LHAFQTDAL LHLILDYVSG</p> <p>GEMFTHLYQR QYFKEAEVRV YGGEIVLAL HLHLKLGIIYR DLKLENVLLD SEGHIVLTDF</p> <p>GLSKEFLTEE KERTFSFCGT IEYMAPEIIR SKTGHGKAVD WWSLGILLFE LLTGASPFTL</p> <p>EGERNQAQEV SRRILKCSPP FPPRIGPVAQ DLLQRLCKD PKKRLGAGPQ GAQEVNRNHPF</p> <p>FQGLDWVALA ARKIPAPFRP QIRSELDVGN FAEFTRLEP VYSPGSPPP GDPRIFQGSY</p> <p>FVAPSILFDH NNAVMTDGL APGAGDRPGR AAVARSAMMQ DSPFFQYEL DLREPALGQG</p> <p>SFSVCRRCRQ RQSGQEFQV ILSRRLEANT QREVAALRLC QSHPNVNLH EVHHDQLHTY</p> <p>LVLELLRGGE LLEHIRKKRH FSESEASQIL RSLVSAVSFM HEEAGVVHRD LKPENILYAD</p> <p>DTPGAPVKII DFGFARLRPQ SPGVPMQTPC FTLQYAAPEL LAQQGYDESC DLWSLGVILY</p> <p>MMLSGQVPFQ GASQGGGQSQ AAEIMCKIRE GRFSLDGEAW QGVSEEAKEL VRGLLTVDPA</p> <p>KRLKLEGLRG SSWLQDGSAR SSPPLRTPDV LESSGPAVRS GLNATFMAFN RGKREGFFLK</p>

Product Details

SVENAPLAKR RKQKLRSA SRRGSPAPAN PGRAPVASKG APRRANGPLP PS **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: MSK2 (RPS6KA4)

Alternative Name: RPS6KA4 ([RPS6KA4 Products](#))

Background: Ribosomal protein S6 kinase alpha-4 (S6K-alpha-4) (EC 2.7.11.1) (90 kDa ribosomal protein S6 kinase 4) (Nuclear mitogen- and stress-activated protein kinase 2) (Ribosomal protein kinase B) (RSKB),FUNCTION: Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the transcription factor RELA, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth

Target Details

factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMG1/HMG14). In lipopolysaccharide-stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors. {ECO:0000269|PubMed:11035004, ECO:0000269|PubMed:12773393, ECO:0000269|PubMed:9792677}.

Molecular Weight: 85.6 kDa

UniProt: [O75676](#)

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