

Datasheet for ABIN7549526  
**MEK2 Protein (AA 1-400) (His tag)**



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## Overview

Quantity:	1 mg
Target:	MEK2 (MAP2K2)
Protein Characteristics:	AA 1-400
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEK2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat MAP2K2 Protein expressed in mammalien cells.
Sequence:	MLARRKPVLP ALTINPTIAE GPSPTSEGAS EANLVDLQKK LEELELDEQQ KKRLEAFLTQ KAKVGELKDD DFERISELGA GNGGVVTKVQ HRPSGLIMAR KLIHLEIKPA IRNQIIRELQ VLHECNSPYI VGFYGAIFYSD GEISICMEHM DGGSLDQVLK EAKRIPEEIL GKVSIIVLRG LAYLREKHQI MHRDVKPSNI LVNSRGEIKL CDFGVSGQLI DSMANSFVGT RSYMAPERLQ GTHYSVQSDI WSMGLSLVEL AVGRYPIPPP DAKELEAIFG RPVVDGEEGE PHSISPRPRP PGRPVSUGHM DSRPAMAIFE LLDYIVNEPP PKLPNGVFTP DFQEFVNKCL IKNPAERADL KMLTNHTFIK RSEVEEVDFG GWLCKTLRLN QPGTPTRTAV <b>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.</b>
Characteristics:	Key Benefits:

## Product Details

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- 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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: MEK2 (MAP2K2)

Alternative Name: MAP2K2 ([MAP2K2 Products](#))

Background: Dual specificity mitogen-activated protein kinase kinase 2 (MAP kinase kinase 2) (MAPKK 2) (EC 2.7.12.2) (ERK activator kinase 2) (MAPK/ERK kinase 2) (MEK 2),FUNCTION: Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner, by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:29433126). {ECO:0000250|UniProtKB:Q63932, ECO:0000269|PubMed:29433126}.

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Molecular Weight: 44.4 kDa

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UniProt: [P36507](#)

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Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [BCR Signaling](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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