

Datasheet for ABIN7554104
HMGCR Protein (AA 1-888) (His tag)



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Overview

Quantity:	1 mg
Target:	HMGCR
Protein Characteristics:	AA 1-888
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMGCR protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HMGCR Protein expressed in mammalian cells.
Sequence:	<p>MLSRLFRMHG LRVASHPWEV IVGTVTLTIC MMSMNMF TGN NKICGWNYEC PKFEEDVLSS DIIILTITRC IAILYIFQF QNLRQLGSKY ILGIAGLFTI FSSFVFSTVV IHFLDKELTG LNEALPFFLL LIDLRSRSTL AKFALSSNSQ DEVRENIARG MAILGPTFTL DALVECLVIG VGTMSGVRQL EIMCCFGCMS VLANYFV FMT FFPACVSLVL ELSRESREGR PIWQLSHFAR VLEEEENKPN PVTQRVKMIM SLGLVLVHAH SRWIADPSPQ NSTADTSKVS LGLDENVSKR IEPSVSLWQF YLSKMISMDI EQVITLSLAL LLA VKYIFFE QTETESTLSL KNPITSPVVT QKKVPDNCCR REPMLVRNNQ KCDSVEEETG INRERKVEVI KPLVAETDTP NRATFVVGNS SLLDTSSVLV TQEPEIELPR EPRPNEECLQ ILGNAEKGAK FLSDAEIQL VNAKHIPAYK LETLMETHER GVSIRRQLLS KKLSEPSLQ YLPYRDYNYS LVMGACCENV IGYMPIVGV AGPLCLDEKE FQVPMATTEG CLVASTNRGC RAIGLGGGAS SRVLADGMTR GPVRLPRAC DSAEVKAWLE TSEGFAVIKE AFDSTSRFAR LQKLHTSIAG RNLYIRFQSR SGDAMGMNMI SKGTEKALS LHEYFPEMQI LAVSGNYCTD KKPAAINWIE GRGKSVVCEA VIPAKVREV LKTTTEAMIE</p>

Product Details

VNINKNLVGS AMAGSIGGYN AHAANIVTAI YIACGQDAAQ NVGSSNCITL MEASGPTNED
LYISCTMPSI EIGTVGGGTN LLPQQAQLQM LGVQGACKDN PGENARQLAR IVCCTVMAGE
LSLMAALAAG HLVKSHMIHN RSKINLQDLQ GACTKKTA **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: HMGCR

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

Background: 3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMG-CoA reductase) (EC 1.1.1.34),FUNCTION: Catalyzes the conversion of (3S)-hydroxy-3-methylglutaryl-CoA (HMG-CoA) to mevalonic acid, the rate-limiting step in the synthesis of cholesterol and other isoprenoids, thus plays a critical role in cellular cholesterol homeostasis (PubMed:2991281, PubMed:21357570, PubMed:6995544, PubMed:36745799). HMGCR is the main target of

Target Details

statins, a class of cholesterol-lowering drugs (PubMed:11349148, PubMed:18540668, PubMed:36745799). {ECO:0000269|PubMed:11349148, ECO:0000269|PubMed:18540668, ECO:0000269|PubMed:21357570, ECO:0000269|PubMed:2991281, ECO:0000269|PubMed:36745799, ECO:0000269|PubMed:6995544}.

Molecular Weight: 97.5 kDa

UniProt: [P04035](#)

Pathways: [AMPK Signaling](#), [Negative Regulation of Hormone Secretion](#), [Regulation of Lipid Metabolism by PPARalpha](#)

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