

Datasheet for ABIN7553624
DCP2 Protein (AA 1-420) (His tag)



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Overview

Quantity:	1 mg
Target:	DCP2
Protein Characteristics:	AA 1-420
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DCP2 Protein expressed in mammalian cells.
Sequence:	<p>METKRVEIPG SVLDDLCSRF ILHIPSEERD NAIRVCFQIE LAHWFYLDFY MQNTPGLPQC GIRDFAKAVF SHCPFLLPQG EDVEKVLDEW KEYKMGVPTY GAIILDETLN NVLLVQGYLA KSGWGFPGKG VNKEEAPHDC AAREVFEETG FDIKDYICKD DYIELRINDQ LARLYIIPGI PKDTKFNPKT RREIRNIEWF SIEKLPCHRN DMTPKSKLGL APNKFFMAIP FIRPLRDWLS RRFGDSSDSD NGFSSTGSTP AKPTVEKLSR TKFRHSQQLF PDGSPGDQWV KHRQPLQQKP YNNHSEMSDL LKGKNQSMRG NGRKQYQDSP NQKKRTNGLQ PAKQQNSLMK CEKKLHPRKL QDNFETDAVY DLPSSSEDQL LEHAEGQPVA CNGHCKFPFS SRAFLSFKFD HNAIMKILD</p> <p>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.</p> <p>In case you have a special request, please contact us.</p>
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.

Product Details

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:

DCP2

Alternative Name:

DCP2 ([DCP2 Products](#))

Background:

M7GpppN-mRNA hydrolase (EC 3.6.1.62) (Nucleoside diphosphate-linked moiety X motif 20) (Nudix motif 20) (mRNA-decapping enzyme 2) (hDpc),FUNCTION: Decapping metalloenzyme that catalyzes the cleavage of the cap structure on mRNAs (PubMed:12417715, PubMed:12218187, PubMed:12923261, PubMed:21070968, PubMed:28002401, PubMed:31875550). Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP (PubMed:12486012, PubMed:12923261, PubMed:21070968, PubMed:28002401, PubMed:31875550). Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay (PubMed:14527413). Plays a role in replication-dependent histone mRNA degradation (PubMed:18172165). Has higher activity towards mRNAs that lack a poly(A) tail (PubMed:21070968). Has no activity towards a cap structure lacking an RNA moiety (PubMed:21070968). The presence of a N(6)-methyladenosine methylation at the second transcribed position of mRNAs (N(6),2'-O-dimethyladenosine cap, m6A(m)) provides resistance

Target Details

to DCP2-mediated decapping (PubMed:28002401). Blocks autophagy in nutrient-rich conditions by repressing the expression of ATG-related genes through degradation of their transcripts (PubMed:26098573). {ECO:0000269|PubMed:12218187, ECO:0000269|PubMed:12417715, ECO:0000269|PubMed:12486012, ECO:0000269|PubMed:12923261, ECO:0000269|PubMed:14527413, ECO:0000269|PubMed:18172165, ECO:0000269|PubMed:21070968, ECO:0000269|PubMed:26098573, ECO:0000269|PubMed:28002401}.

Molecular Weight: 48.4 kDa

UniProt: [Q8IU60](#)

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