

Datasheet for ABIN7552878

BCDIN3D Protein (AA 1-292) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	BCDIN3D
Protein Characteristics:	AA 1-292
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCDIN3D protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant BCDIN3D Protein expressed in mammalian cells.
Sequence:	MAVPTELDGG SVKETAAEEE SRVLAPGAAP FGNFPHYSRF HPPEQLRLL PPELLRQLFP ESPENGPILG LDVGCNSGDL SVALYKHFLS LPDGETCSDA SREFRLLCCD IDPVLVKRAE KECPFPDALT FITLDFMNQR TRKVLLSSFL SQFGRSVFDI GFCMSITMWI HLNHGHDHGLW EFLAHLSSLC HYLLVEPQPW KCYRAAARRL RKLGLHDFDH FHSLAIRGDM PNQIVQILTQ DHGMELICCF GNTSWDRSLL LFRAKQTIET HPIPESLIEK GKEKNRSLFQ KQ 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:

Product Details

- 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:	BCDIN3D
Alternative Name:	BCDIN3D (BCDIN3D Products)
Background:	<p>RNA 5'-monophosphate methyltransferase (EC 2.1.1.-) (BCDIN3 domain-containing protein),FUNCTION: O-methyltransferase that specifically monomethylates 5'-monophosphate of cytoplasmic histidyl tRNA (tRNA(His)), acting as a capping enzyme by protecting tRNA(His) from cleavage by DICER1 (PubMed:28119416, PubMed:31329584, PubMed:31919512). Also able, with less efficiently, to methylate the 5' monophosphate of a subset of pre-miRNAs, acting as a negative regulator of miRNA processing (PubMed:23063121, PubMed:28119416). The 5' monophosphate of pre-miRNAs is recognized by DICER1 and is required for pre-miRNAs processing: methylation at this position reduces the processing of pre-miRNAs by DICER1 (PubMed:23063121). Was also reported to mediate dimethylation of pre-miR-145, however dimethylation cannot be reproduced by another group which observes a monomethylation of pre-miR-145 (PubMed:23063121, PubMed:28119416). {ECO:0000269 PubMed:23063121, ECO:0000269 PubMed:28119416, ECO:0000269 PubMed:31329584, ECO:0000269 PubMed:31919512}.</p>
Molecular Weight:	33.2 kDa

Target Details

UniProt: [Q7Z5W3](#)

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