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Datasheet for ABIN7550332
OTUD1 Protein (AA 1-481) (His tag)

Overview

Quantity:	1 mg
Target:	OTUD1
Protein Characteristics:	AA 1-481
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OTUD1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant OTUD1 Protein expressed in mammalian cells.
Sequence:	<p>MQLYSSVCTH YPAGAPGPTA AAPAPPAAAT PFKVSLQPPG AAGAAPEPET GECQPAAAAE HREAAVPAA KMPAFSSCFE VVSGAAAPAS AAAGPPGASC KPPLPPHYTS TAQITVRALG ADRLLLHGPD PVPGAAGSAA APRGRCLLLA PAPAAPVPPR RGSSAWLLEE LLRPDCPEPA GLDATREGPD RNFRLSEHRQ ALAAAKHRGP AATPGSPDPG PGPWGEEHLA ERGPRGWERG GDRCDAPGGD AARRPDPEAE APPAGSIEAA PSSAAEPVIV SRSDPRDEKL ALYLAEVEKQ DKYLRQRNKY RFHIIPDGNC LYRAVSKTVY GDQSLHREL R EQTVHYIADH LDHFSPLIEG DVGEFIIAAA QDGAWAGYPE LLAMGQMLNV NIHLTTGGRL ESPTVSTMIH YLGPEDSLRP SIWLSWLSNG HYDAVFDHSY PNPEYDNWCK QTQVQRKRDE ELAKSMAISL SKMYIEQNAC S</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. 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

Product Details

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:

OTUD1

Alternative Name:

OTUD1 ([OTUD1 Products](#))

Background:

OTU domain-containing protein 1 (EC 3.4.19.12) (DUBA-7),FUNCTION: Deubiquitinating enzyme that specifically hydrolyzes 'Lys-63'-linked polyubiquitin to monoubiquitin (PubMed:23827681). Required for the stability and translation of a subset mRNAs with a high abundance of rare codons by mediating deubiquitination of 40S ribosomal protein RPS10/eS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed:36445135). The abundance of rare codons in mRNAs can limit the translation rate and can lead to ribosome collisions that trigger activation of ribosome quality control (RQC) pathway by ZNF598 (PubMed:36445135). OTUD1-mediated deubiquitination prevents activation of the RQC and subsequent dissociation of ribosomes and stimulates formation of polysomes and translation (PubMed:36445135). {ECO:0000269|PubMed:23827681, ECO:0000269|PubMed:36445135}.

Molecular Weight:

51.1 kDa

Target Details

UniProt: [Q5VV17](#)

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