

Datasheet for ABIN7558536
NUDT15 Protein (AA 1-170) (His tag)



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Overview

Quantity:	1 mg
Target:	NUDT15
Protein Characteristics:	AA 1-170
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUDT15 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nudt15 Protein expressed in mammalian cells.
Sequence:	MAANAEP RRR PGVGVGVVVL SCEHPRCVLL GKRKGSFGAG SFQLPGGHLE FGETWEECAQ RETWEEAGLH LKNVCFASV NSFVEKENYH YVTILMKGEV DMTHDSEPRN MEPEKNESWE WVPWEEFPPL DQLFWALRCL KEQGYDPFKE DLNHLEGYRG EHLERTTKTP 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: <ul style="list-style-type: none">• 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

Product Details

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)
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Grade:	custom-made
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Target Details

Target:	NUDT15
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Alternative Name:	Nudt15 (NUDT15 Products)
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Background:	<p>Nucleotide triphosphate diphosphatase NUDT15 (EC 3.6.1.9) (MutT homolog 2) (mMTH2) (Nucleoside diphosphate-linked moiety X motif 15) (Nudix motif 15) (Nucleoside diphosphate-linked to another moiety X hydrolase 15) (Nudix hydrolase 15),FUNCTION: May catalyze the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP (PubMed:12767940). Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives (By similarity). Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent their incorporation into DNA, is unclear (PubMed:12767940). Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs (By similarity). May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA (By similarity). Exhibits decapping activity towards dpCoA-capped RNAs in vitro (PubMed:32432673). {ECO:0000250 UniProtKB:Q9NV35, ECO:0000269 PubMed:12767940, ECO:0000269 PubMed:32432673}.</p>
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Molecular Weight:	19.6 kDa
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Target Details

UniProt: [Q8BG93](#)

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