

Datasheet for ABIN7562713 FHIT Protein (AA 1-150) (His tag)



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Overview

Quantity:	1 mg
Target:	FHIT
Protein Characteristics:	AA 1-150
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FHIT protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Fhit Protein expressed in mammalien cells.
Sequence:	<p>MSFRFGQHLL KPSVFLKTE LSFALVNRKP VVPGHVLVCP LRPVERFRDL HPDEVADLFQ</p> <p>VTQRVGTVE KHFQGTSITF SMQDGPEAGQ TVKHVHVHVL PRKAGDFPRN DNIYDELQKH</p> <p>DREEEDSPAF WRSEKEMAAE AEALRVYFQA Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p> <p>of the protein could make another tag necessary. In case you have a special request, please</p> <p>contact us.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	FHIT
Alternative Name:	Fhit (FHIT Products)
Background:	<p>Bis(5'-adenosyl)-triphosphatase (EC 3.6.1.29) (AP3A hydrolase) (AP3Aase) (Adenosine 5'-monophosphoramidase FHIT) (EC 3.9.1.-) (Adenylylsulfatase) (EC 3.6.2.1) (Adenylylsulfate-ammonia adenylyltransferase) (EC 2.7.7.51) (Diadenosine 5',5'''-P1,P3-triphosphate hydrolase) (Dinucleosidetriphosphatase) (Fragile histidine triad protein),FUNCTION: Possesses dinucleoside triphosphate hydrolase activity (By similarity). Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP (By similarity). Can also hydrolyze P(1)-P(4)-bis(5'-adenosyl) tetrphosphate (Ap4A), but has extremely low activity with ATP (By similarity). Exhibits adenylylsulfatase activity, hydrolyzing adenosine 5'-phosphosulfate to yield AMP and sulfate (By similarity). Exhibits adenosine 5'-monophosphoramidase activity, hydrolyzing purine nucleotide phosphoramidates with a single phosphate group such as adenosine 5'monophosphoramidate (AMP-NH2) to yield AMP and NH2 (By similarity). Exhibits adenylylsulfate-ammonia adenylyltransferase, catalyzing the ammonolysis of adenosine 5'-phosphosulfate resulting in the formation of adenosine 5'-phosphoramidate (By similarity). Also catalyzes the ammonolysis of adenosine 5-phosphorofluoridate and diadenosine triphosphate (By similarity). Modulates transcriptional activation by CTNNB1 and thereby contributes to regulate the expression of genes essential for cell proliferation and survival, such as CCND1 and BIRC5 (By similarity). Plays a role in the induction of apoptosis via SRC and AKT1 signaling</p>

Target Details

pathways (By similarity). Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis (By similarity). Induction of apoptosis depends on the ability of FHIT to bind P(1)-P(3)-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity (By similarity). Functions as a tumor suppressor (PubMed:10758156, PubMed:11517343). {ECO:0000250|UniProtKB:P49789, ECO:0000269|PubMed:10758156, ECO:0000269|PubMed:11517343}.

Molecular Weight: 17.2 kDa

UniProt: [O89106](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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