Bis (5'-Adenosyl)-Triphosphatase (FHIT) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bis (5'-adenosyl)-triphosphatase (Fhit), Recombinant Protein
Full Product Name	Recombinant Rat Bis (5'-adenosyl)-triphosphatase (Fhit)
Product Gene Name	Fhit recombinant protein
Product Synonym Gene Name	Fhit
Sequence	MSFKFGQHLI KPSVVFLKTE LSFALVNRKP VVPGHVLMCP LRPVERFRDL RPDEVADLFQ VTQRVGTVVE KHFQGTSITF SMQDGPEAGQ TVKHVHVHIL PRKSGDFRRN DNIYDELQKH DREEEDSPAF WRSEEEMAAE AEVLRAYFQA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	17,348 Da
Sequence Positions	1-150, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9JIX3
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fhit recombinant protein	MBS1331063 is a recombinant protein targeting Fhit. Also known as Recombinant Rat Bis (5'-adenosyl)-triphosphatase (Fhit). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Fhit recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fhit. It may not necessarily be applicable to this product.

NCBI GI #	11120730
NCBI GeneID	60398
NCBI Accession #	NP_068542.1
UniProt Primary Accession #	Q9JIX3
UniProt Related Accession #	Q9JIX3
GenBank Nucleotide #	NM_021774.1

NCBI Official Full Name	bis(5'-adenosyl)-triphosphatase
NCBI Official Synonym Full Names	fragile histidine triad
NCBI Official Symbol	Fhit
UniProt Protein Name	Bis(5'-adenosyl)-triphosphatase
UniProt Synonym Protein Names	AP3A hydrolase; AP3Aase; Diadenosine 5',5'"-P1,P3-triphosphate hydrolase; Dinucleosidetriphosphatase; Fragile histidine triad protein
Protein Family	Bifunctional bis(5'-adenosyl)-triphosphatase/adenylylsulfatase
UniProt Gene Name	Fhit
UniProt Synonym Gene Names	AP3Aase
NCBI Protein Information	bis(5'-adenosyl)-triphosphatase
NCBI Summary for Fhit	may play a role in the development of hepatocellular carcinomas (HCCs) induced by N-nitrosodiethylamine (DEN) [RGD, Feb 2006]
UniProt Comments for Fhit	Cleaves P1-P3-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. Can also hydrolyze P1-P4-bis(5'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity with ATP. 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. Plays a role in the induction of apoptosis via SRC and AKT1 signaling pathways. Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis. Induction of apoptosis depends on the ability of FHIT to bind P1-P3-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity. Functions as tumor suppressor ().
Research Articles on Fhit	**1.** Nickel(II) treatment down-regulated Fhit expression.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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