Recombinant human FHIT protein

Catalog Number: ATGP0563

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-147aa

UniProt No.
P49789

NCBI Accession No.
NP_002003

Alternative Names
Bis(5'-adenosyl)-triphosphatase, AP3A hydrolase, AP3Aase, Adenosine 5'-monophosphoramidase FHIT, Adenylylsulfatase, Adenylylsulfate-ammonia adenylyltransferase, Diadenosine 5',5'''-P1,P3-triphosphate hydrolase, Dinucleosidetriphosphatase, Fragile histidine triad protein, FRA3B

PRODUCT SPECIFICATION

Molecular Weight
17.9 kDa (155aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
FHIT (fragile histidine triad) is an enzyme that cleaves adenosine 5' PPP 5' A to yield AMP and ADP. FHIT gene encompasses the common fragile site FRA3B on chromosome 3. Alterations and deletions of the FHIT gene are strongly linked to the genesis and establishment of human tumors of the lung, cervix, breast, colon, stomach and pancreas. In normal cells, FHIT may act as a tumor suppressor. This protein physically associates with

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ubiquitin conjugating enzyme 9. Recombinant human FHIT, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

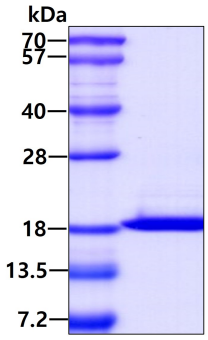
MSFRFGQHLI KPSVVFLKTE LSFALVNRKP VVPGHVLVCP LRPVERFHDL RPDEVADLFQ TTQRVGTVVE KHFHGTSLTF SMQDGPEAGQ TVKHVHVHVL PRKAGDFHRN DSIYEELQKH DKEDFPASWR SEEEMAAEAA ALRVYFQ<LEH HHHHH>

General References

Kmiec Z., et al. (2009) J Physiol Pharmacol. 60(4):63-70.
Ahmad F., et al. (2010) J Cancer Res Clin Oncol. 136(3):333-50.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.