

# Recombinant human FHIT protein

Catalog Number: ATGP0563

## PRODUCT INFORMATION

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**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

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**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**

&gt; 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

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**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

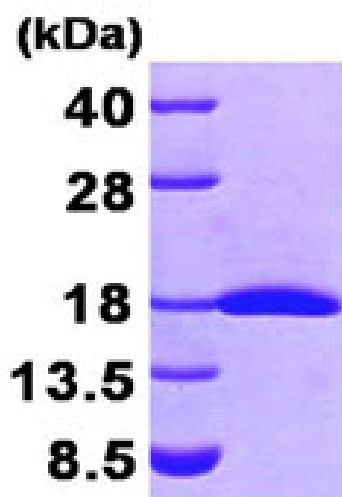
MSFRFGQHLLI KPSVVFLKTE LSFALVNRKP VVPGHVLVCP LRPVERFHDH RPDEVADLFQ TTQRVGTVE KHFHGTSLTF  
SMQDGPAGQ TVKHVHVHVL PRKAGDFHRN DSIYEELQKH DKEDFPASWR SEEEMAAEAA ALRVYFQLEH HHHHH

### 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.

15% SDS-PAGE (3ug)