

Recombinant Human Fragile Histidine Triad Gene, His-tagged

Cat. No. FHIT-703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FHIT, fused to His-tag at C-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography. MW = 17.9 kDa(155aa).
Species	Human
Source	<i>E. coli</i>
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 ubiquitin conjugating enzyme 9.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MSFRFGQHLL KPSVVFLKTE LSFALVNRKP VVPGHVLVCP LRPVERFHDL RPDEVADLFQ TTQRVGTVVE KHFGHTSLTF SMQDGPEAGQ TVKHVHVHVL PRKAGDFHRN DSIYEELQKH DKEDFPASWR SEEEMAAEAA ALRVYFQLEH HHHHH.

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

FHIT fragile histidine triad gene [Homo sapiens]

Synonyms

FHIT; fragile histidine triad gene; FRA3B; AP3Aase; bis(5"-adenosyl)-triphosphatase; AP3A hydrolase; tumor suppressor protein; dinucleosidetriphosphatase; diadenosine 5",5""-P1,P3-triphosphate hydrolase; EC 3.6.1.29

Gene ID

2272

mRNA Refseq

NM_001166243

Protein Refseq

NP_001159715

MIM

601153

UniProt ID

P49789

**Chromosome
Location**

3p14.2

Pathway

Non-small cell lung cancer; Purine metabolism; Small cell lung cancer

Function

s(5"-adenosyl)-triphosphatase activity; hydrolase activity; magnesium ion binding; manganese ion binding; nickel ion binding; protein binding

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on 1fhi.



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