

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	E.coli
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	MSFRFGQHLLI KPSVVFLKTE LSFALVNRKP VVPGHVLVCP LRPVERFHDL RPDEVADLFQ TTQRVGTVVE KHFGTSLTF 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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PDB rendering based
on 1fhi.



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