

Recombinant Human Fragile Histidine Triad Gene

Cat. No. FHIT-211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant FHIT shows a band at 43kDa on SDS-PAGE coomassie blue stained gel and produced in <i>E.coli</i> . Recombinant FHIT is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Cleaves A-5"-PPP-5"A to yield AMP and ADP. Possible tumor suppressor for specific tissues Alterations and deletions of the FHIT (Fragile Histidine Triad) 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.
Physical Appearance	Sterile filtered liquid.
Formulation	100g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA, 20% Glycerol without BSA and Sodium Azide.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE coomassie blue gel.
Dimers And Aggregates	Less than 1% as determined by coomassie blue SDS-PAGE gel analysis.

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Endotoxi	Less than 0.1 ng/g (IEU/g) of Human FHIT.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, FHIT is stable for 12 months. Please avoid freeze-thaw 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

PDB rendering based
on 1fhi.



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