Recombinant Human FHIT, His-tagged

Cat. No. FHIT-12887H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FHIT protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-147a.a.
Description	This gene, a member of the histidine triad gene family, encodes a diadenosine 5,5-P1,P3-triphosphate hydrolase involved in purine metabolism. The gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced damage can lead to translocations and aberrant transcripts of this gene. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. Alternatively spliced transcript variants have been found for this gene.
Source	E.coli
Species	Human
Tag	His
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.

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Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	FHIT fragile histidine triad [Homo sapiens]
Official Symbol	FHIT
Synonyms	FHIT; fragile histidine triad; fragile histidine triad gene; bis(5-adenosyl)-triphosphatase; AP3Aase; FRA3B; AP3A hydrolase; tumor suppressor protein; dinucleosidetriphosphatase; diadenosine 5,5-P1,P3-triphosphate hydrolase;
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, organism-specific biosystem; Non-small cell lung cancer, conserved biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Small cell lung cancer, organism-specific biosystem; Small cell lung cancer, conserved biosystem;

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Function	bis(5-adenosyl)-triphosphatase activity; catalytic activity; hydrolase activity; nickel cation binding; protein binding;

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