Recombinant Human FHIT Protein (M1-Q147), Tag Free

Cat. No. FHIT-0839H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-FHIT(M1-Q147 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-Q147
Description	Possesses dinucleoside triphosphate hydrolase activity. Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. Can also hydrolyze P(1)-P(4)-bis(5'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity with ATP. Exhibits adenylylsulfatase activity, hydrolyzing adenosine 5'-phosphosulfate to yield AMP and sulfate. Exhibits adenosine 5'-monophosphoramidase activity, hydrolyzing purine nucleotide phosphoramidates with a single phosphate group such as adenosine 5'monophosphoramidate (AMP-NH2) to yield AMP and NH2. Exhibits adenylylsulfate-ammonia adenylyltransferase, catalyzing the ammonolysis of adenosine 5'-phosphosulfate resulting in the formation of adenosine 5'-phosphoramidate. Also catalyzes the ammonolysis of adenosine 5-phosphorofluoridate and diadenosine triphosphate. Modulates transcriptional activation by CTNNB1 and thereby contributes to regulate the expression of genes essential for cell proliferation and survival, such as CCND1 and BIRC5. Plays a role in the induction of apoptosis via SRC and AKT1 signaling pathways. Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis. Induction of apoptosis depends on the ability of FHIT

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	to bind P(1)-P(3)-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity, it may in part come from the mitochondrial form, which sensitizes the low-affinity Ca(2+) transporters, enhancing mitochondrial calcium uptake. Functions as tumor suppressor.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	FHIT fragile histidine triad [Homo sapiens (human)]
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;

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Gene ID	2272
mRNA Refseq	NM_001166243
Protein Refseq	NP_001159715
MIM	601153
UniProt ID	P49789

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