

Recombinant Mouse FHIT Protein (2-150 aa), His-tagged

Cat. No. FHIT-997M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FHIT Protein (2-150 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	E.coli
ProteinLength	2-150 aa
Description	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. 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 to bind P(1)-P(3)-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity. Functions as tumor suppressor.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	21.1 kDa

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AA Sequence	SFRFGQHLLIKPSVVFLKTELSFALVNRKPVVPGHVLVCPLRPVERFRDLHPDEVADL FQVTQRVGTVVEKHFQGTSTITFSMQDGPEAGQTVKHVHVHVLPRKAGDFPRNDNIY DELQKHDRREEEDSPAFWRSEKEMAAEAEALRVYFQA
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

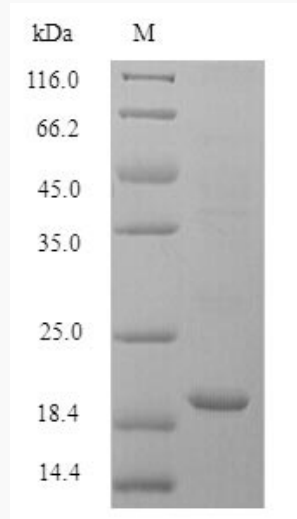
GENE INFORMATION

Gene Name	Fhit fragile histidine triad gene [<i>Mus musculus</i>]
Official Symbol	FHIT
Synonyms	FHIT; AP3Aase; AP3A hydrolase; Fra14A2; AW045638;
Gene ID	14198
mRNA Refseq	NM_010210
Protein Refseq	NP_034340
UniProt ID	O89106

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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