

Recombinant Human TAZ

Cat. No. TAZ-30938TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Tafazzin/TAZ protein with an N terminal proprietary tag; predicted mwt: 54.56 kDa with the tag.
Species	Human
Source	Wheat Germ
ProteinLength	262 amino acids
Description	This gene encodes a protein that is expressed at high levels in cardiac and skeletal muscle. Mutations in this gene have been associated with a number of clinical disorders including Barth syndrome, dilated cardiomyopathy (DCM), hypertrophic DCM, endocardial fibroelastosis, and left ventricular noncompaction (LVNC). Multiple transcript variants encoding different isoforms have been described. A long form and a short form of each of these isoforms is produced; the short form lacks a hydrophobic leader sequence and may exist as a cytoplasmic protein rather than being membrane-bound. Other alternatively spliced transcripts have been described but the full-length nature of all these transcripts is not known.
Molecular Weight	54.560kDa inclusive of tags
Tissue specificity	High levels in cardiac and skeletal muscle. Up to 10 isoforms can be present in different amounts in different tissues. Most isoforms are ubiquitous. Isoforms that lack the N-terminus are found in leukocytes and fibroblasts, but not in heart and skeletal

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MPLHVKWPFPAVPPLTWTLASSVVMGLVGTYSCFWTSEWA QAEAGPPGYPCPAG GILKLRHIWNLKLMRWTPAAADICFT KELHSHFFSLGKCVPCRGDGVYQKGMDFIL EKLNHGDWV HIFPEGIGRLIAECHLNPIILPLWHVGEPGDGDREMASGV GGLGLPL VPGCPAPPHVWPSVHCAAGMNDVLPNSPPYFPR FGQKITVLIGKPFSAIPVLERLR AENKSAVEMRKALTDIF QEEFQHLKTQAEQLHNHLQPGR
Sequence Similarities	Belongs to the tafazzin family.

GENE INFORMATION

Gene Name	TAZ tafazzin [Homo sapiens]
Official Symbol	TAZ
Synonyms	TAZ; tafazzin; cardiomyopathy, dilated 3A (X linked) , CMD3A, EFE, EFE2, endocardial fibroelastosis 2; Barth syndrome; BTHS; G4.5; XAP 2;
Gene ID	6901
mRNA Refseq	NM_000116

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Protein Refseq	NP_000107
MIM	300394
Uniprot ID	Q16635
Chromosome Location	Xq28
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem;
Function	1-acylglycerophosphocholine O-acyltransferase activity; transferase activity, transferring acyl groups;

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