

Recombinant Human YWHAQ, His-tagged

Cat. No. YWHAQ-26016TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein corresponding to amino acids 1-245 of Human 14-3-3 Tau, with an N-terminal His(6) tag. Residue M35 of the fusion protein is equivalent to M1 of the native protein. The His(6) tag is located at residues 5 - 10. Protease cleavage
Species	Human
Source	E.coli
Protein Length	245 amino acids
Description	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse and rat orthologs. This gene is upregulated in patients with amyotrophic lateral sclerosis. It contains in its 5' UTR a 6 bp tandem repeat sequence which is polymorphic, however, there is no correlation between the repeat number and the disease.
Conjugation	HIS
Molecular Weight	31.000kDa inclusive of tags
Tissue specificity	Abundantly expressed in brain, heart and pancreas, and at lower levels in kidney and placenta. Up-regulated in the lumbar spinal cord from patients with sporadic amyotrophic lateral sclerosis (ALS) compared with controls, with highest levels of

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	expression
Form	Liquid
Purity	Purified via His tag
Storage buffer	pH: 7.50Constituents:0.6% HEPES, 0.02% DTT, 50% Glycerol, 0.004% PMSF, 0.012% Benzamidine
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSMEKTEL IQKAKLAEQAERY DDMATCMKAVTEQGAELSNEERNLLSV AYKNVVGRRSAWRVISSIEQKTDTSK KLQLIKDYREKV ESELSICTTVLELLDKYLIANATNPESKVFYLMKGDYF RYLAEV ACGDDRKQTIDNSQGAYQEAFDISKEMQPTHPI RLGLALNFSVFYYEILNNPELAC TLAKTAFDEAIAELDTL NEDSYKDSTLIMQLLRDNLTLWTSDSAGEECDAAEGAEN
Sequence Similarities	Belongs to the 14-3-3 family.

GENE INFORMATION

Gene Name	YWHAQ tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide [Homo sapiens]
Official Symbol	YWHAQ
Synonyms	YWHAQ; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide; 14-3-3 protein theta; 14 3 3; HS1; protein tau;
Gene ID	10971

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mRNA Refseq	NM_006826
Protein Refseq	NP_006817
MIM	609009
Uniprot ID	P27348
Chromosome Location	2p25.2-p25.1
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem;
Function	protein N-terminus binding; protein binding; protein domain specific binding;

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