

## Recombinant Human YWHAQ, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	245 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	31.000kDa inclusive of tags
<b>Tissue specificity</b>	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
<b>Form</b>	Liquid
<b>Purity</b>	Purified via His tag
<b>Storage buffer</b>	pH: 7.50 Constituents: 0.6% HEPES, 0.02% DTT, 50% Glycerol, 0.004% PMSF, 0.012% Benzamidine
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSHMASMTGGQQMGRGSMKTEL IQKAKLAEQAERY DDMATCMKAVTEQGAELSNEERNLLSV AYKNVVGRRSAWRVISSIEQKTDTSK KLQLIKDYREKV ESELSICTTVLELLDKYLIANATNPESKVFYLMKGDYF RYLAEV ACGDDRKQTIDNSQGAYQEAFFDISKKEMQPTHPI RLGLALNFSVFYIEILNNPELAC TLAKTAFDEAIAELDTL NEDSYKDSTLIMQLLRDNLTLWTSDSAGEECDAAEGAEN
<b>Sequence Similarities</b>	Belongs to the 14-3-3 family.

## GENE INFORMATION

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

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<b>mRNA Refseq</b>	NM_006826
<b>Protein Refseq</b>	NP_006817
<b>MIM</b>	609009
<b>Uniprot ID</b>	P27348
<b>Chromosome Location</b>	2p25.2-p25.1
<b>Pathway</b>	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;
<b>Function</b>	protein N-terminus binding; protein binding; protein domain specific binding;

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