

# Recombinant Human Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, Epsilon Polypeptide, GST-tagged

**Cat. No.** YWHAE-4897H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human YWHAE was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	YWHAE, also known as tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein is a member of the 14-3-3 family. YWHAE has been reported to be involved in heat shock transcription factor 1 (HSF1) and extracellular signal regulated protein kinase (ERK) pathways. YWHAE interaction with the deubiquitinating enzyme UBPY, also known as USP8, regulates cargo sorting and membrane traffic at early endosomes. Association of YWHAE, HSF1 with ERK during heat shock may modulate the amplitude of the response and control the termination of HSP expression on resumption of growth conditions.
<b>Applications</b>	Western Blot
<b>Molecular Weight</b>	55kDa
<b>Expression System</b>	E.coli
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM

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	glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Purity</b>	>90 %
<b>Concentration</b>	0.2ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	Cell cycle; Signalling by NGF; Alpha6-Beta4 Integrin Signaling Pathway; Calcium Regulation in the Cardiac Cell; Cell death signalling via NRAGE; Centrosome maturation; Class I PI3K signaling events mediated by Akt; ErbB1 downstream signaling; FoxO family signaling; G2/M Transition; IGF1 pathway; Insulin-mediated glucose transport; LKB1 signaling events; Lissencephaly gene (LIS1) in neuronal migration and development; Loss of Nlp from mitotic centrosomes
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	YWHAE tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide [ Homo sapiens ]
<b>Official Symbol</b>	YWHAE
<b>Synonyms</b>	YWHAE; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide;MDS; MDCR; KCIP-1; 14-3-3E; 14-3-3 Epsilon; FLJ45465; 14-3-3 epsilon; mitochondrial import stimulation factor L subunit; protein kinase C inhibitor protein-1; tyrosine 3/tryptophan 5 -monooxygenase activation protein; epsilon polypeptide

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<b>Gene ID</b>	7531
<b>mRNA Refseq</b>	NM_006761
<b>Protein Refseq</b>	NP_006752
<b>MIM</b>	605066
<b>UniProt ID</b>	P62258
<b>Chromosome Location</b>	17p13.3
<b>Function</b>	enzyme binding; protein domain specific binding; histone deacetylase binding; phosphoprotein binding; protein binding
<b>PDB rendering based on 2br9.</b>	

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