

Recombinant Mouse YWHAE, GST-tagged

Cat. No. YWHAE-1193M Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse YWHAE (P62259) (Met 1 – Gln 255) was fused with the GST tag at the N-terminus
Species	Mouse
Source	Human
ProteinLength	1-255 a.a.
Description	<p>Mouse tyrosine 3-monooxygenase / tryptophan 5-monooxygenase activation protein, epsilon polypeptide (YWHAE), is a member of the 14-3-3 proteins which are a family of conserved regulatory molecules expressed in all eukaryotic cells. The name 14-3-3 refers to the particular elution and migration pattern of these proteins on DEAE-cellulose chromatography and starch-gel electrophoresis. The 14-3-3 proteins eluted in the 14th fraction of bovine brain homogenate and were found on positions 3.3 of subsequent electrophoresis. There are seven genes that encode 14-3-3s in most mammals. 14-3-3 proteins have been identified as adapter proteins implicated in the regulation of a large spectrum of both general and specialized signaling pathway. More than 100 signaling proteins have been reported as 14-3-3 ligands including kinases, phosphatases, and transmembrane receptors, and the binding generally results in the modulation of the activity of the binding partner.</p>
Form	Lyophilized from sterile 50 mM Tris, 2 mM GSH, 1 mM DTT, pH 8.2 Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific

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concentrations are included in the hardcopy of COA.

Purity > 90 % as determined by SDS-PAGE

Endotoxin 1.0 EU per µg protein as determined by the LAL method

Stability Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal Met

Molecular Mass The recombinant mouse YWHAE / GST chimera consists of 487 amino acids and has a predicted molecular mass of 56.1 kDa. It migrates as an approximately 48 kDa band in SDS-PAGE under reducing conditions

Storage Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Pathways Alpha6-Beta4 Integrin Signaling Pathway; Calcium Regulation in the Cardiac Cell; Centrosome maturation

GENE INFORMATION

Gene Name [Ywhae tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide \[Mus musculus \]](#)

Official Symbol Ywhae

Synonyms Ywhae; AU019196; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide; 14-3-3 protein epsilon; 14-3-3E; 14-3-3 epsilon

Gene ID [22627](#)

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mRNA Refseq	NM_009536
Protein Refseq	NP_033562
UniProt ID	Q5SS40
Chromosome Location	11 B2
Function	enzyme binding; histone deacetylase binding; monooxygenase activity

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