

# Recombinant Human Tyrosine 3-monooxygenase/ Tryptophan 5-monooxygenase Activation Protein, Epsilon Polypeptide

Cat. No. YWHAE-10H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant human 14-3-3  $\epsilon$  was expressed in *E.coli* and purified by using conventional chromatography techniques, 29 kDa (255 aa).

### Species

Human

### Source

*E.coli*

### Description

The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms,  $\beta$ ,  $\gamma$ ,  $\epsilon$ ,  $\sigma$ ,  $\zeta$ ,  $\tau$  and  $\eta$  that have been identified in mammals. The 14-3-3 epsilon, a subtype of the 14-3-3 family of proteins, was thought to be brain and neuron-specific. It has been shown to interact with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer.

### Sequences of amino acids

MDDREDLVYQ AKLAEQAERY DEMVESMKKV AGMDVELTVE ERNLLSVAYK  
 NVIGARRASW RIISSIEQKE ENKGGEDKLK MIREYRQMVE TELKLICCDI  
 LDVLDKHLIP AANTGESKVF YYKMKGDYHR YLAEFATGND RKEAAENSLV  
 AYKAASDIAM TELPPTHPIR LGLALNFSVF YYEILNSPDR ACRLAKAAFD  
 DAIAELDTLS EESYKDSTLI MQLLRDNLTL WTSDMQGDGE EQNKEALQDV  
 EDENQ

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<b>Formulation</b>	Liquid in 20 mM Tris pH 7.5
<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	YWHAE tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide [ Homo sapiens ]
<b>Synonyms</b>	YWHAE; 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-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide; tyrosine 3/tryptophan 5 -monooxygenase activation protein; epsilon polypeptide.
<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</b>	17p13.3

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**Location****Pathway**


Cell cycle; Cell Cycle, Mitotic; Signalling by NGF

**Function**

enzyme binding; protein domain specific binding

PDBrendering based  
on 2br9. Available  
structures:2br9



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