

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 ε was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques, 29 kDa (255 aa).
Species	Human
Source	<i>E. coli</i>
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, β, γ, ε, σ, ζ, τ and η 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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Formulation	Liquid in 20 mM Tris pH 7.5
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	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.
GENE INFORMATION	
Gene Name	YWHAE tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide [Homo sapiens]
Synonyms	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.
Gene ID	7531
mRNA Refseq	NM_006761
Protein Refseq	NP_006752
MIM	605066
UniProt ID	P62258
Chromosome	17p13.3

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Location

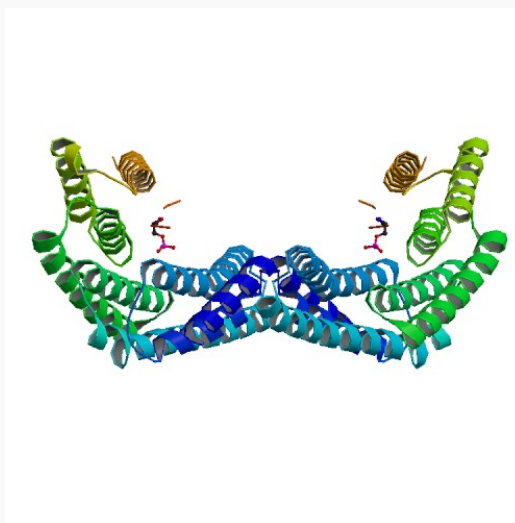
Pathway

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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