

# Recombinant human 14-3-3 epsilon protein

Catalog Number: ATGP3587

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-255aa

### UniProt No.

P62258

### NCBI Accession No.

NP\_006752

### Alternative Names

YWHAE, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon, 14-3-3E, HEL2, KCIP-1, MDCR, MDS

## PRODUCT SPECIFICATION

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### Molecular Weight

31.3 kDa (275aa) Confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

YWHAE, also known as 14-3-3 protein epsilon, is adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling 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,

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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. Recombinant human YWHAE, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

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

## General References

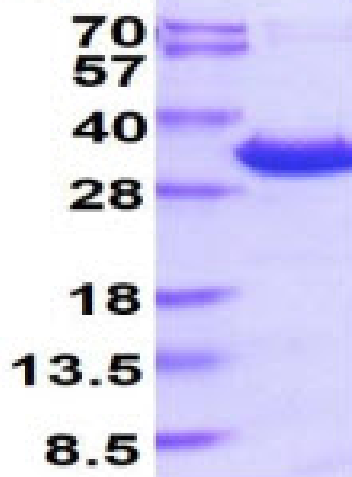
Oriente F, et al. (2005) *J Biol Chem.* 280(49):40642-9.

Conklin DS, et al. (1995) *Proc Natl Acad Sci USA.* 92(17):7892-6

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)