Product information

YWHAE, 1-255aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3587

Full name: 14-3-3 protein epsilon

NCBI Accession No.: NP_006752

Synonyms: 14-3-3E, HEL2, KCIP-1, MDCR, MDS

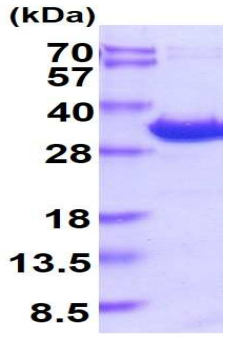
Description: YWHAE, also known as 14-3-3 protein epsilon, is adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β, γ, ε, σ, ζ, τ and η 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. Recombinant human YWHAE, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH7.4) containing 1mM DTT, 10% glycerol

Molecular Weight: 31.3 kDa (275aa) Confirmed by MALDI-TOF

Purity: > 90% by SDS-PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH 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

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

Manufactured for:
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Product information

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.

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