

YWHAE, 1-255aa, Human, His-tag, E.coli

Cat.NO.: TP04525

3th Edition

Synonyms:14-3-3 protein epsilon, 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, ϵ_1 , ϵ_2 , ϵ_3 , ϵ_4 , ϵ_5 , ϵ_6 and ϵ_7 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

Sequences:

MGSSHHHHHSSGLVPRGSHMDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIG
ARRASWRIISSIEQKEENKGGEDKLMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVFYYKMKGDYHRYL
AEFATGNDRKEAAENSLVAYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSE
ESYKDSTLIMQLLRDNLTLWTSDMQGDGEEQNKEALQDVEDENQ

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.