Product information

14-3-3 zeta, 1-245 aa

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

Cat. No. IBYWZ0801

Full name: Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide

Synonyms: YWHAZ, KCIP-1

NCBI Accession No.: NP_663723

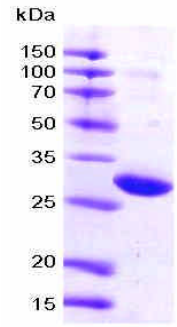
Description: The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β, γ, ε, σ, ζ, τ and η that have been identified in mammals. 14-3-3 zeta interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Recombinant human YWHAZ, 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

Molecular Weight: 32 kDa (245 aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMDK NELVQKAKLA EQAERYDDMA ACMKSVTEQG AELSNEERNL LSVAYKNVVG ARRSSWRVVS SIEQKTEGAE KKQQMAREYR EKIETELRDI CNDVLSLLEK FLIPNASQAE SKVFYLKMKG DYYRYLAEVA AGDDKKGIVD QSQQAYQEAF EISKKEMQPT HPIRLGLALN FSVFYYEILN SPEKACSLAK TAFDEAIAEL DTLSEESYKD STLIMQLLRD NLTLWTSDTQ GDEAEAGEGG EN

General references:

Gannon-Murakami L., *et al*. (2002) *J Biol Chem*. 277(26): 23116-23122

Li FQ**.,** *et al.* (2008) *J Cell Biol.* 181(7):1141-54

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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