# Recombinant human 14-3-3 zeta protein

Catalog Number: YWZ0801

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-245aa

**UniProt No.**
P63104

**NCBI Accession No.**
NP_663723

**Alternative Names**
YWHAZ, YWHAD, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta/delta, 14-3-3 protein zeta/delta, Protein kinase C inhibitor protein 1, KCIP-1

## PRODUCT SPECIFICATION

**Molecular Weight**
32 kDa (282aa) confirmed by MALDI-TOF

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

**Formulation**
Liquid in. Phosphate-Buffered Saline (pH 7.4)

**Purity**
> 95% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**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

**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, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. 14-3-3

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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.

**Amino acid Sequence**

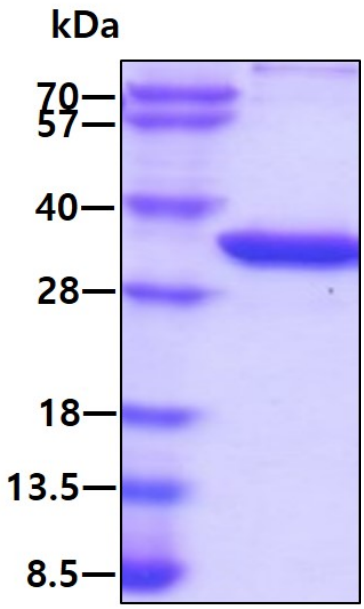
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH>MDK NELVQKAKLA EQAERYDDMA ACMKSVTEQG AELSNEERNL LSVAYKNVVG ARRSSWRVVS SIEQKTEGAE KKQQMAREYR EKIETELRDI CNDVLSLLEK FLIPNASQAE SKVFYLKMKG DYYRYLAEVA AGDDKKGIVD QSQQAYQEAF EISKKEMQPT HPIRLGLALN FSVFYYEILN SPEKACSLAK TAFDEAIAEL DTLSEESYKD STLIMQLLRD NLTLWTSDTQ GDEAEAGEGG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

## DATA

**SDS-PAGE**




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