

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 EKIELLRDI CNDVLSLLEK FLIPNASQAE SKVFYLMKMG DYYRYLAEVA AGDDKKGIVD QSQQAYQAEF EISKEMQPT HPIRLGLALN FSVFYEILN SPEKACSLAK TAFDEAIAEL DTLSEESYKD STLIMQLLRD NLTLWTSQTQ 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.

