

Recombinant Human Tyrosine 3-monooxygenase/ Tryptophan 5-monooxygenase Activation Protein, Zeta Polypeptide, His-tagged

Cat. No. YWHAZ-104H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human YWHAZ, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (245 aa, 32kDa).
Species	Human
Source	E.coli
ProteinLength	1-245 aa
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.
Formulation	Liquid in Phosphate Buffered Saline pH7.4.
Molecular Weight	32 kDa (245 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMDK NELVQKAKLA
 EQAERYDDMA ACMKSVTEQG AELSNEERNL LSVAYKNVVG ARRSSWRVVS
 SIEQKTEGAE KKQQMAREYR EKIETELRDI CNDVLSLLEK FLIPNASQAE
 SKVFLKMKMG DYYRYLAEVA AGDDKKGIVD QSQQAYQAEF EISKKEMQPT
 HPIRLGLALN FSVFYEILN SPEKACSLAK TAFDEAIAEL DTLSEESYKD
 STLIMQLLRD NLTLWTSQTQ GDEAEAGEGG EN

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.

GENE INFORMATION

Gene Name

[YWHAZ](#)

Synonyms

YWHAZ; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide; KCIP-1; MGC111427; MGC126532; MGC138156; phospholipase A2; 14-3-3 zeta; 14-3-3 protein/cytosolic phospholipase A2; Protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; tyrosine 3/tryptophan 5 -monooxygenase activation protein, zeta polypeptide; OTTHUMP00000165851; OTTHUMP00000165852; OTTHUMP00000165854; OTTHUMP00000165858; OTTHUMP00000165859; OTTHUMP00000165860; YWHAZ tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide.

Gene ID

[7534](#)

mRNA Refseq

[NM_001135699.1](#)

Protein Refseq

[NP_001129171.1](#)

MIM

[601288](#)

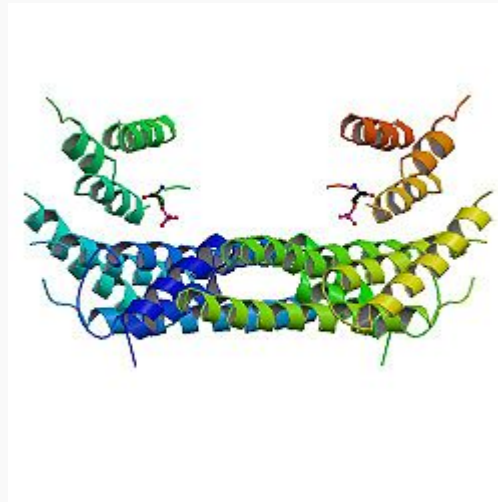
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UniProt ID	P63104
Chromosome Location	8q23.1
Pathway	Cell cycle; Pathogenic Escherichia coli infection - EHEC; Pathogenic Escherichia coli infection - EPEC.
Function	protein domain specific binding; transcription factor binding.

PDBrendering based on 1a37. Available structures:1a37,1a38,1a



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