

## YWHAZ Human

**Description:** YWHAZ fused to His Tag on N-terminus Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 245 amino acids (1-245) and having a molecular mass of 32 kDa. YWHAZ is purified by proprietary chromatographic techniques.

Catalog #: PKPS-264

**Synonyms:** YWHAZ, KCIP-1, MGC111427, MGC126532, MGC138156, 14-3-3 protein zeta/delta, Protein kinase C inhibitor protein 1, Tyr-3/Trp- 5 Monooxygenase Activation Protein Zeta, 14-3-3 Zeta.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMDK  
NELVQKAKLA EQAERYDDMA ACMKSVTEQG AELSNEERNL LSVAYKNVVG ARRSSWRVVS  
SIEQKTEGAE KKQQMAREYR EKIETELRDI CNDVLSLLEK FLIPNASQAE SKVFYLMKMG  
DYYRYLAEVA AGDDKKGIVD QSQQAYQAEF EISKKEMQPT HPIRLGLALN FSVFYEILN  
SPEKACSLAK TA

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

YWHAZ solution containing 1x PBS pH-7.

**Stability:**

YWHAZ Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

YWHAZ accession number NP\_663723 belongs to the 14-3-3 family of proteins which are in charge for checkpoint control, apoptotic & nutrient sensing pathways as well as signal transduction by binding to phosphoserine-containing proteins. The 14-3-3 protein family is found in both plants and mammals, and KCIP-1 protein is 99% identical to the mouse, rat and sheep orthologs. KCIP-1 interacts with IRS1 protein, signifying a role in regulating insulin. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least 7 isoforms,  $\gamma$ ,  $\delta$ ,  $\epsilon$ ,  $\zeta$ ,  $\eta$ ,  $\theta$ , and  $\iota$  that have been identified in mammals. YWHAZ function as an adapter protein involved in the regulation of a large spectrum of both general and specialized signaling pathway. YWHAZ binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner.

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