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California Bioscience

Product Datasheet

Product Name	Tyr-3/Trp- 5 Monooxygenase Activation Protein Zeta Human Recombinant
Cata No	CB501427
Source	*Escherichia Coli.*
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.

Description

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

Physical Appearance

Sterile filtered colorless solution.

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-7.4

Stability

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

Sequence

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

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