**14-3-3ζ Protein**

**Full length recombinant protein expressed in E. coli cells**

**Catalog # Y92-30N**

Lot # Q042-4

**Product Description**

Recombinant full-length human tag-free 14-3-3ζ was expressed in E. coli cells. The gene accession number is NM_003406.

**Gene Aliases**

14-3-3 ζ, YWHAZ, KCIP-1, MGC111427, MGC126532, MGC138156

**Formulation**

Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

**Storage and Stability**

Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**Scientific Background**

14-3-3ζ (also known as tyrosine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, zeta polypeptide) is a member of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. 14-3-3ζ protein plays a key role in cancer biology by being an important regulator of major cellular processes such as proliferation, differentiation, senescence and apoptosis (1). 14-3-3ζ protein has been shown to interact with the IRS1 protein, suggesting a role for this protein in regulating insulin sensitivity by interrupting the association between the insulin receptor and IRS1 (2).

**Purity**

The purity of 14-3-3ζ was determined to be >95% by densitometry. Approx. MW 29kDa.

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