14-3-3ε, GST-tagged, human recombinant, expressed in E. coli cells

Catalog Number SRP5153
Storage Temperature –70 °C

Synonyms: YWHAE, MDS, MDCR, KCIP-1, 14-3-3E, FLJ45465

Product Description
14-3-3ε also known as tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein is a member of the 14-3-3 family. 14-3-3ε has been reported to be involved in heat shock transcription factor 1 (HSF1) and extracellular signal regulated protein kinase (ERK) pathways.1 14-3-3ε interaction with the deubiquitinating enzyme UBPY, also known as USP8, regulates cargo sorting and membrane traffic at early endosomes. Association of 14-3-3ε, HSF1 with ERK during heat shock may modulate the amplitude of the response and control the termination of HSP expression on resumption of growth conditions.2

Recombinant full-length human 14-3-3ε was expressed in E. coli cells using an N-terminal GST tag. The gene accession number is NM_006761. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.2 5 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~55 kDa
Purity: 70–95% (SDS-PAGE, see Figure 1)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)

References

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