ERK1, Unactive
Full-length recombinant protein expressed in E. coli cells

Catalog # M29-14G
Lot # W116-5

Product Description
Recombinant full-length human ERK1 was expressed in E. coli cells using an N-terminal GST tag. The gene accession number is NM_002746.

Gene Aliases
PRKM3; P44ERK1; P44MAPK; MAPK3

Formulation
Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 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
ERK1 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines (1). Activation of ERK1 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK1 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK1 translocates into the nucleus where it phosphorylates various transcription factors [e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta].

References

Purity
The purity of ERK1 was determined to be >95% by densitometry. Approx. MW 70kDa.

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