

ERK2 Protein, Human, Recombinant (His)

General Information

Protein Construction: Met1-Ser360
Species: Human
Expression Host: Baculovirus-Insect Cells
Accession: P28482
Molecular Weight: 42.91 kDa

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity: > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin: < 1 EU/ μ g of the protein as determined by the LAL method.
Formulation: Supplied as 0.22 μ m filtered solution in 20 mM Tris, 500 mM NaCl, 10% glycerol (pH 8.0).

Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Extracellular signal-regulated protein kinase 2 (ERK2) plays many vital roles in cellular signal regulation. Phosphorylation of ERK2 leads to propagation and execution of various extracellular stimuli, which influence cellular responses to stress. The final response of the ERK2 signaling pathway is determined by localization and duration of active ERK2 at specific target cell compartments through protein-protein interactions of ERK2 with various cytoplasmic and nuclear substrates, scaffold proteins, and anchoring counterparts.

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