# Recombinant Human ERK1/MAPK3 Kinase

## Catalog No.: RP03300LQ

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## Sequence Information

**Species**
Human

**Gene ID**
5595

**Swiss Prot**
P27361

**Tags**
N-GST

**Synonyms**
ERK1; MAPK3; ERT2; PRKM3; p44MAPK; p44ERK1; MAP kinase 3; Mitogen-activated protein kinase 3; Extracellular signal-regulated kinase 1; MAP kinase isoform p44

## Product Information

**Source**
Baculovirus-Insect Cells

**Purification**
≥ 90 % as determined by SDS-PAGE.

**Calculated MW**
68.49 kDa

**Observed MW**
60-70 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT, pH 7.5. Contact us for customized product form or formulation.

**Reconstitution**
Please use running water to thaw it quickly.

## Background

Mitogen-activated protein kinase 3, also known as p44MAPK and ERK1, is an enzyme that in humans is encoded by the MAPK3 gene. ERK1/MAPK3 is a serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAP kinases act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets.

## Basic Information

**Description**
Recombinant Human ERK1/MAPK3 Protein is produced by Baculovirus-Insect cells expression system. The target protein is expressed with sequence (Ala2-Pro379) of human ERK1/MAPK3 (Accession #P27361) fused with GST tag at the N-terminus.

**Activity**
The activity of ERK1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -70℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

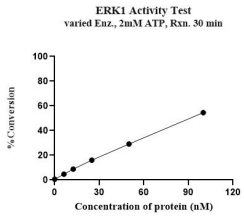
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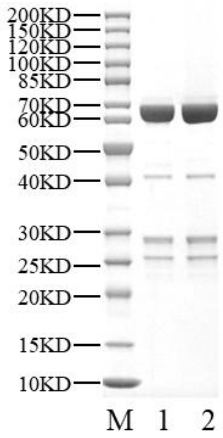


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## Validation Data




The activity of ERK1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.




Recombinant Human ERK1/MAPK3 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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