

Active Recombinant Human MAPK3 Protein

Cat. No. MAPK3-307H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length, tag-free human ERK1 was expressed in E.coli cells and activated by active MEK1 in vitro.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), 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. Alternatively spliced transcript variants encoding different protein isoforms have been described.
Bio-activity	380 nmol/min/mg
Molecular Mass	~44 kDa
Purity	>80%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µL

Storage Buffer 25 mM MOPS, pH 7.5, 300 mM NaCl, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 0.25% glycerol.

Shipping Dry ice.

GENE INFORMATION

Gene Name [MAPK3 mitogen-activated protein kinase 3 \[Homo sapiens \(human\) \]](#)

Official Symbol [MAPK3](#)

Synonyms MAPK3; mitogen-activated protein kinase 3; ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; mitogen-activated protein kinase 3; MAPK 1; extracellular signal-regulated kinase 1; extracellular signal-related kinase 1; insulin-stimulated MAP2 kinase; microtubule-associated protein 2 kinase; EC 2.7.11.24

Gene ID [5595](#)

mRNA Refseq [NM_002746](#)

Protein Refseq [NP_002737](#)

MIM [601795](#)

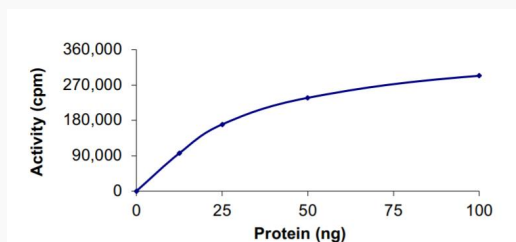
UniProt ID [P27361](#)

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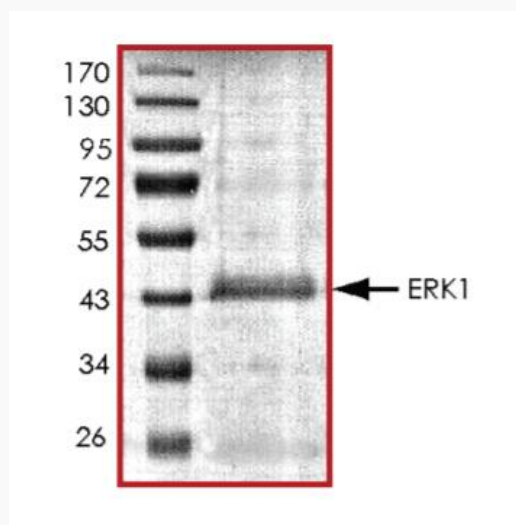
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Activity



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Purity



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