

ERK2 recombinant protein

ERK2, Unactive recombinant protein

CATALOG #
AAA72918

HOST
E. coli

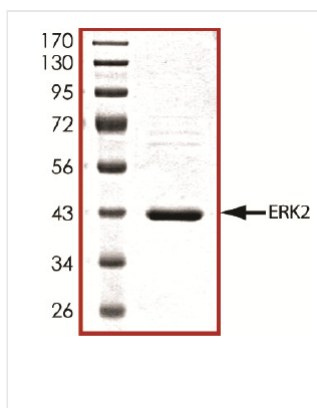
PRODUCT SYNONYMS

ERK2; Unactive recombinant protein; MAPK1; MAPK2; P42MAPK; PRKM1; PRKM2; p41mapk; ERK; ERT1; ERK2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	>95%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EDTA, 25% glycerol.
Concentration	0.2ug/ul (varies by lot)
Sequence Length	5916
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Store product at -70 degree 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.

IMAGES



SDS-PAGE

The purity of ERK2 was determined to be >95% by densitometry. Approx MW 42kDa.

ADDITIONAL INFORMATION

Related Product Information for ERK2 recombinant protein

Recombinant full-length tag-free human ERK2 was expressed in E. coli cells.

Scientific Background: ERK2 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 ERK2 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK2 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK2 translocates into the nucleus where it phosphorylates various transcription factors (e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta).

Product Categories/Family for ERK2 recombinant protein	Unactive Kinase; Signaling Proteins - Unactive Kinases
References	1. Boulton, TG. et al: Purification and properties of extracellular signal-regulated kinase 1, an insulin-stimulated microtubule-associated protein 2 kinase. Biochemistry. 1991 Jan 8;30(1):278-86.

NCBI AND UNIPROT INFORMATION

NCBI GI #	75709178
NCBI GeneID	5594
NCBI Accession #	NM_002745
NCBI GenBank Nucleotide #	NM_002745
UniProt Accession #	P28482; A8CZ64
Molecular Weight	~42 kDa
NCBI Official Full Name	Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	mitogen-activated protein kinase 1
NCBI Official Symbol	MAPK1
NCBI Official Synonym Symbols	ERK; p38; p40; p41; ERK2; ERT1; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk
NCBI Protein Information	mitogen-activated protein kinase 1; ERK-2; MAPK 2; p42-MAPK; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; protein tyrosine kinase ERK2; mitogen-activated protein kinase 2; extracellular signal-regulated kinase 2
UniProt Protein Name	Mitogen-activated protein kinase 1
UniProt Gene Name	MAPK1
UniProt Synonym Gene Names	ERK2; PRKM1; PRKM2; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 2
UniProt Entry Name	MK01_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.