

Active Recombinant Human MAPK3 Protein, His/GST-Tagged

Cat. No. MAPK3-1050H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ERK1, full length, amino acids M1-P379 (as in NCBI/Protein entry NP_002737.2), N terminal GST-His 6 fusion protein with a Thrombin cleavage site, activated, expressed in E.coli
Species	Human
Source	E.coli
ProteinLength	1-379 a.a.
Bio-activity	Specific kinase activity (Pi transfer): 95 pmol/g × min ATP-KM: 3.4 μM
Molecular Mass	69.402 kDa
Storage	At -80 centigrade. For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10μ are not advisable. Avoid repeated freeze-thaw cycles!
Concentration	0.445 g/μ
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20 % glycerol
Full Length	Full L.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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; MAP kinase isoform p44; 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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Determination of Vmax and KM value for ATP

Determination of KM value / Specific activity:

- Assay conditions:

60 mM HEPES-NaOH, pH 7.5

3 mM MgCl₂

3 mM MnCl₂

3 μM Na-orthovanadate

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1.2 mM DTT
50 g/ml PEG20.000
ATP (variable)
Substrate: RBER-CHKtide 40 g/ml
Kinase: 0.4 g/ml
• Filter binding assay
MSFC membrane (Millipore)

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