Recombinant Human MAPK3 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. MAPK3-061H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPK3 MS Standard C13 and N15-labeled recombinant protein (NP_002737) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	43.1 kDa
AA Sequence	MAAAAAQGGGGGEPRRTEGVGPGVPGEVEMVKGQPFDVGPRYTQLQYIGEGAYG MVSSAYDHVRKTRVAIKKISPFEHQTYCQRTLREIQILLRFRHENVIGIRDILRASTLEA MRDVYIVQDLMETDLYKLLKSQQLSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNL LINTTCDLKICDFGLARIADPEHDHTGFLTEYVATRWYRAPEIMLNSKGYTKSIDIWSV GCILAEMLSNRPIFPGKHYLDQLNHILGILGSPSQEDLNCIINMKARNYLQSLPSKTKV AWAKLFPKSDSKALDLLDRMLTFNPNKRITVEEALAHPYLEQYYDPTDEPVAEEPFT

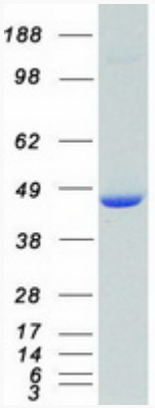
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	FAMELDDLPKERLKELIFQETARFQPGVLEAPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MAPK3 mitogen-activated protein kinase 3 [Homo sapiens (human)]
Official Symbol	MAPK3
Synonyms	MAPK3; mitogen-activated protein kinase 3; ERK-1; ERK1; ERT2; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; P44ERK1; P44MAPK; PRKM3; 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

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MIM	601795
UniProt ID	P27361
SDS-PAGE	

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