

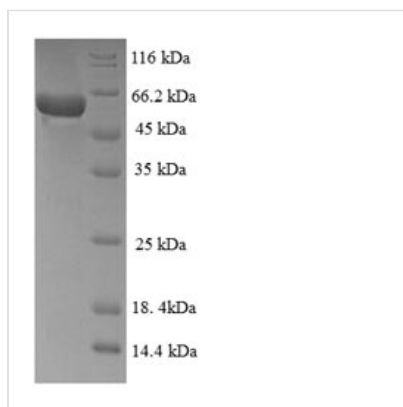


# Recombinant Human Mitogen-activated protein kinase 13 (MAPK13)

<b>Product Code</b>	CSB-EP013452HU
<b>Relevance</b>	<p>Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK13 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by Extracellular domain stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK13 is one of the less studied p38 MAPK isoforms. Some of the targets are downstream kinases such as MAPKAPK2, which are activated through phosphorylation and further phosphorylate additional targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EEF2K. Involved in cytoskeletal remodeling through phosphorylation of MAPT and STMN1. Mediates UV irradiation induced up-regulation of the gene expression of CXCL14. Plays an important role in the regulation of epidermal keratinocyte differentiation, apoptosis and skin tumor development. Phosphorylates the transcriptional activator MYB in response to stress which leads to rapid MYB degradation via a proteasome-dependent pathway. MAPK13 also phosphorylates and down-regulates PRKD1 during regulation of insulin secretion in pancreatic beta cells</p>
<b>Abbreviation</b>	Recombinant Human MAPK13 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O15264
<b>Alias</b>	Mitogen-activated protein kinase p38 delta ;MAP kinase p38 delta;Stress-activated protein kinase 4
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	<p>MSLIRKKGFFYKQDVNKTAWELPKTYVSPHVGSGAYGVSVCSAIDKRSGEKVAI          KKLRSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFYDFYLV          PFMQTDLQKIMGMEFSEEKIQYL VYQMLKGLKYIHSAGVVHRDLKPGNLAVNE          DCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWVSGCIM          AEMLTGKTLFKGKDYLDQLTQILKVTGVPGTEFVQKLNDKAAKSYIQSLPQTPR          KDFTQLFPRASPQAADLLEKMLELDVDKRLTAAQALHPFFEPFRDPEEETEA          QPFDSDSLEHEKLTVDEWKQHYYKEIVNFSPARKDSRRRSGMKL</p>
<b>Research Area</b>	Cell Biology



<b>Source</b>	E.coli
<b>Target Names</b>	MAPK13
<b>Protein Names</b>	Recommended name: Mitogen-activated protein kinase 13 Short name= MAP kinase 13 Short name= MAPK 13 EC= 2.7.11.24 Alternative name(s): Mitogen-activated protein kinase p38 delta Short name= MAP kinase p38 delta Stre
<b>Expression Region</b>	1-365aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	58.1kDa
<b>Protein Length</b>	Full Length

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
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