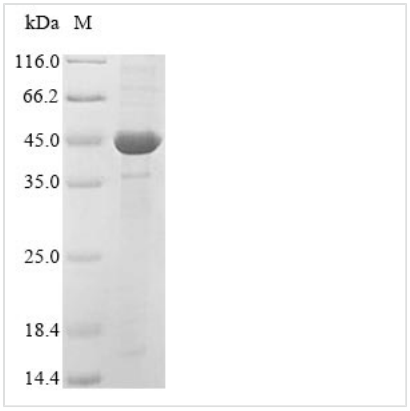
Recombinant Oryza sativa subsp. japonica Mitogen-activated protein kinase 5 (MPK5)

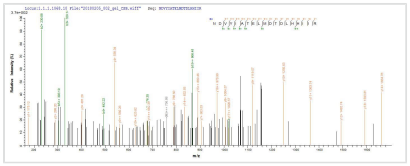
Product Code	CSB-EP607476OFG
Relevance	Involved in disease resistance and abiotic stress tolerance signaling pathways. Acts as a positive regulator of drought, salt and cold tolerance. Negatively modulates pathogenesis-related (PR) gene expression and broad-spectrum disease resistance. Functions downstream of CPK18 in a signaling pathway that represses defense gene expression and negatively regulates resistance to rice blast fungus. Phosphorylated by CPK18 at Thr-14 and Thr-32 and activated independently of MAP kinase kinase (MKK) phosphorylation
Abbreviation	MPK5
Storage	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.
Uniprot No.	Q10N20
Product Type	Recombinant Protein
Immunogen Species	Oryza sativa subsp. japonica (Rice)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MDGAPVAEFRPTMTHGGRYLLYDIFGNKFEVTNKYQPPIMPIGRGAYGIVCSV MNFETREMVAIKKIANAFNNDMDAKRTLREIKLLRHLDHENIIGIRDVIPPPIPQA FNDVYIATELMDTDLHHIIRSNQELSEEHCQYFLYQILRGLKYIHSANVIHRDLKP SNLLLNANCDLKICDFGLARPSSESDMMTEYVVTRWYRAPELLLNSTDYSAAI DVWSVGCIFMELINRQPLFPGRDHMHQMRLITEVIGTPTDDELGFIRNEDARKY MRHLPQYPRRTFASMFPRVQPAALDLIERMLTFNPLQRITVEEALDHPYLERLH DIADEPICLEPFSFDFEQKALNEDQMKQLIFNEAIEMNPNIRY
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	MPK5
Protein Names	Benzothiadiazole-induced MAP kinase 1 MAP kinase 2 Multiple stress-responsive MAP kinase 2 OsBIMK1 OsMAP1 OsMAPK2 OsMAPK5 OsMPK3 OsMSRMK2 BIMK1, MAPK2, MAPK5, MPK3, MSRMK2
Expression Region	1-369aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	48.0 kDa

Protein Description Full Length

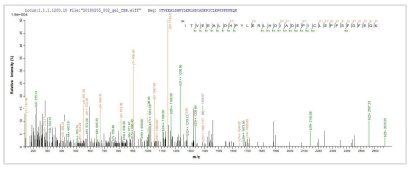
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP607476OFG could indicate that this peptide derived from E.coli-expressed Oryza sativa subsp. japonica (Rice) MPK5.



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Reconstitution 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.