



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	Recombinant <i>Oryza sativa</i> subsp. <i>japonica</i> MPK5 protein
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	<i>Oryza sativa</i> subsp. <i>japonica</i> (Rice)
Purity	≥ 85% as determined by SDS-PAGE.
Sequence	MDGAPVAEFRPTMTHGGRYLLYDIFGNKFEVTNKYQPPIMPPIGRGAYGIVCSV MNFETREMVAIKKIANAFNNDMDAKRTLREIKLLRHLDHENIIGIRDVIPPPIQQA FNDVYIATELMDTDLHIIIRSNQELSEEHCQYFLYQILRGLKYIHSANVIHRDLKP SNLLLNANCDLKICDFGLARPSSSESDMMTEYVVTRWYRAPELLLNSTDYSAAI DVWSVGCIFMELINRQPLFPGRDHMHQMRLITEVIGTPTDDELGFIRNEDARKY MRHLPQYPRRTFASMFPRVQPAALDLIERMLTFNPLQRITVEEALDHPYLERLH DIADEPICLEPFSDFEQKALNEDQMKQLIFNEAIEMNPNIRY
Research Area	Others
Source	E.coli
Target 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 Length	Full Length

