

Recombinant Rice MPK5 Protein (1-369 aa), His-Myc-tagged

Cat. No. MPK5-2503R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rice MPK5 Protein (1-369 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Protein Description: Full Length.
Species	Rice
Source	E.coli
ProteinLength	1-369 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	48.0 kDa
AA Sequence	MDGAPVAEFRPTMTHGGRYLLYDIFGNKFEVTNKYQPPIMPIGRGAYGIVCSVMNFE TREMVAIKKIANAFNNDMDAKRTLREIKLLRHLDHENIIGIRDVIPPIPQAFNDVYIATE LMDTDLHHIIRSNQELSEEHCQYFLYQILRGLKYIHSANVIHRDLKPSNLLLNANCDLKI

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CDFGLARPSSSESDMMTEYVVTRWYRAPELLNSTDYSAIDVWSVGCIFMELINRQ
PLFPGRDHMHQMRLITEVIGTPTDDELGFIRNEDARKYMRHLPQYPRRTFASMFPR
VQPAALDLIERMLTFNPLQRITVEEALDHPYLERLHDIADepICLEPFSDFEQKALNE
DQMKQLIFNEAIEMNPNIY

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

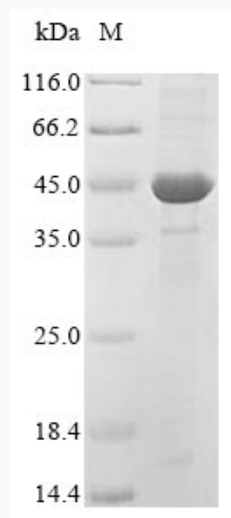
Synonyms MPK5;

UniProt ID [Q10N20](#)

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

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