

## Recombinant Mouse-ear cress MKK1 Protein (Met1-Asn354), N-Fc tagged

**Cat. No.** MEK1-5558A    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse-ear cress MKK1 (Met1-Asn354) fused with the N-Fc tag was expressed in Mammalian cells.                                                                                |
| <b>Species</b>          | Arabidopsis thaliana                                                                                                                                                                    |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                         |
| <b>ProteinLength</b>    | Met1-Asn354                                                                                                                                                                             |
| <b>Form</b>             | Lyophilized powder/frozen liquid                                                                                                                                                        |
| <b>Molecular Mass</b>   | 67.49 kDa                                                                                                                                                                               |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                        |
| <b>Notes</b>            | For research use only.                                                                                                                                                                  |
| <b>Storage</b>          | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b>   | Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.                                                                                                               |
| <b>Reconstitution</b>   | Reconstitute in sterile water for a stock solution.                                                                                                                                     |

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**Shipping**

They are shipped out with dry ice/blue ice unless customers require otherwise.

**GENE INFORMATION**
**Gene Name**

MEK1 MAP kinase/ ERK kinase 1 [ *Arabidopsis thaliana* (thale cress) ]

**Official Symbol**

MEK1

**Synonyms**

MEK1; MAP kinase/ ERK kinase 1; ATMEK1; F20B18.180; F20B18\_180; MAP kinase/ ERK kinase 1; MITOGEN ACTIVATED PROTEIN KINASE KINASE; MITOGEN ACTIVATED PROTEIN KINASE KINASE 1; MKK1; NMAPKK; MAP kinase/ ERK kinase 1; MAP kinase/ ERK kinase 1 (MEK1); CONTAINS InterPro DOMAIN/s: Protein kinase, ATP binding site (InterPro:IPR017441), Serine/threonine-protein kinase domain (InterPro:IPR002290), Serine/threonine-protein kinase-like domain (InterPro:IPR017442), Protein kinase-like domain (InterPro:IPR011009), Serine/threonine-protein kinase, active site (InterPro:IPR008271), Protein kinase, catalytic domain (InterPro:IPR000719), Tyrosine-protein kinase, catalytic domain (InterPro:IPR020635); BEST *Arabidopsis thaliana* protein match is: MAP kinase kinase 2 (TAIR:AT4G29810.1); Has 130463 Blast hits to 128654 proteins in 4456 species: Archae - 177; Bacteria - 14997; Metazoa - 47934; Fungi - 12724; Plants - 32939; Viruses - 535; Other Eukaryotes - 21157 (source: NCBI BLINK).; MAP kinase/ ERK kinase 1 (MEK1); CONTAINS InterPro DOMAIN/s: Protein kinase, ATP binding site (InterPro:IPR017441), Protein kinase, catalytic domain (InterPro:IPR000719), Serine/threonine-protein kinase-like domain (InterPro:IPR017442), Protein kinase-like domain (InterPro:IPR011009), Serine/threonine-protein kinase, active site (InterPro:IPR008271); BEST *Arabidopsis thaliana* protein match is: MAP kinase kinase 2 (TAIR:AT4G29810.1); Has 128112 Blast hits to 126672 proteins in 4377 species: Archae - 175; Bacteria - 14621; Metazoa - 47197; Fungi - 12494; Plants - 32367; Viruses - 521; Other Eukaryotes - 20737 (source: NCBI BLINK).; MAP kinase/ ERK kinase 1 (MEK1); CONTAINS InterPro DOMAIN/s: Protein kinase, ATP binding

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site (InterPro:IPR017441), Protein kinase, catalytic domain (InterPro:IPR000719), Serine/threonine-protein kinase domain (InterPro:IPR002290), Tyrosine-protein kinase, catalytic domain (InterPro:IPR020635), Serine/threonine-protein kinase-like domain (InterPro:IPR017442), Protein kinase-like domain (InterPro:IPR011009), Serine/threonine-protein kinase, active site (InterPro:IPR008271); BEST Arabidopsis thaliana protein match is: MAP kinase kinase 2 (TAIR:AT4G29810.1); Has 35333 Blast hits to 34131 proteins in 2444 species: Archae - 798; Bacteria - 22429; Metazoa - 974; Fungi - 991; Plants - 531; Viruses - 0; Other Eukaryotes - 9610 (source: NCBI BLink).

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| Gene ID | 828713 |
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| mRNA Refseq | NM_118740 |
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| Protein Refseq | NP_194337 |
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| UniProt ID | Q94A06 |
|------------|--------|

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