

## Mitogen-Activated Protein Kinase 14 Human Recombinant

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| <b>Item Number</b>                       | rAP-1289                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>                          | Mitogen-activated protein kinase 14, Mitogen-activated protein kinase p38 alpha, CSBP1, CSBP2, Mxi2, PRKM14, MAP kinase p38 alpha, MAX-interacting protein 2, EXIP, PRKM15, p38, Cytokine suppressive anti-inflammatory drug-binding protein, MAP kinase MXI2,                                                                                                                                                                                            |
| <b>Description</b>                       | MAPK14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 383 amino acids (1-360 a.a.) and having a molecular mass of 43.7kDa. MAPK14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.                                                                                                                                                                |
| <b>Uniprot Accession Number</b>          | Q16539                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Amino Acid Sequence</b>               | MGSSHHHHHH SSGLVPRGSH MGSMQERPT FYRQELNKT I WEVPERYQNL SPVGSGAYGS<br>VCAAFDTKTG LRVAVKKLSR PFQSIHAKR TYRELRLKH MKHENVI GLL DVFTPARSLE EFNDVYLVTH<br>LMGADLNNIV KCQKLTDDHV QFLIYQILRG LKYIHSADII HRDLKPSNLA VNEDCELKIL DFGLARHTDD<br>EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL TGRTLFP GTD HIDQLKLILR LVGTP-<br>GAELL KKISSESARN YIQSLTQMPK MNFANVFIGA NPLAVDLLEK MLVLDSDKRI TAAQALAHAY FA-<br>QYHDPDDE PVADPYDQSF ESRDLLIDEW KSLTYDEVIS FVPPPLDQEE MES. |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Physical Appearance and Stability</b> | Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.                                                                                                                                                                                 |
| <b>Formulation and Purity</b>            | MAPK14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 100mM NaCl and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                  |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                                                                                   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**