

Product Data Sheet

MAP3K8/TPL-2 Protein, Human (sf9, GST)

| Cat. No.: | HY-P75921 |
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| Synonyms: | Mitogen-activated protein kinase kinase kinase 8; TPL-2; MAP3K8; COT; ESTF |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | P41279 (M30-R397) |
| Gene ID: | 1326 |
| Molecular Weight: | Approximately 68 kDa |

| FROFERTIES | |
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| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Solution. |
| Formulation | Supplied as a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM GSH, pH 8.0. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconsititution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |
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DESCRIPTION

| Васкдгоило | MAP3K8/TPL-2 is crucial for lipopolysaccharide (LPS)-induced, TLR4-mediated activation of the MAPK/ERK pathway in |
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| | macrophages, playing a pivotal role in the production of the pro-inflammatory cytokine TNF-alpha (TNF) during immune |
| | responses. It also participates in the regulation of T-helper cell differentiation and IFNG expression in T-cells, contributing to |
| | the modulation of host resistance against bacterial infections by negatively regulating type I interferon (IFN) production. |
| | Furthermore, MAP3K8/TPL-2 is involved in transducing signals from CD40 and TNFRSF1A, activating ERK in B-cells and |
| | macrophages, and potentially influencing immunoglobulin production. In adipocytes, it activates the MAPK/ERK pathway in |
| | response to IL1B and TNF, contributing to the induction of lipolysis in an IKBKB-dependent manner. Additionally, |
| | MAP3K8/TPL-2 may play a role in the transduction of TNF signals that activate JNK and NF-kappa-B in specific cell types. Its |
| | involvement in the cell cycle is evident, with isoform 1 exhibiting some transforming activity, albeit weaker than that of the |
| | activated oncogenic variant. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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