

## Recombinant Mouse DDR1 Kinase/MCK10 Protein (His & GSTTag)

**Catalog Number:** PKSM040294

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

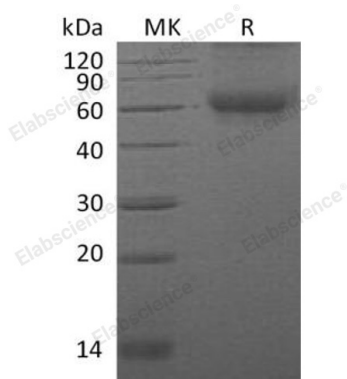
### Description

|                      |   |
|----------------------|---|
| <b>Species</b>       | Mouse   |
| <b>Source</b>        | Baculovirus-Insect Cells-derived Mouse DDR1 Kinase/MCK10 protein Leu444-Val874, with an N-terminal His & GST                              |
| <b>Calculated MW</b> | 75.8 kDa  |
| <b>Observed MW</b>   | 68 kDa  |
| <b>Accession</b>     | Q03146-2  |
| <b>Bio-activity</b>  | The specific activity was determined to be 2 nmol/min/mg using synthetic modified AXLTide peptide (modified-CKKSRGDYMTMQIG) as substrate. |

### Properties

|                      |   |
|----------------------|---|
| <b>Purity</b>        | > 85 % as determined by reducing SDS-PAGE.  |
| <b>Concentration</b> | Subject to label value.   |
| <b>Endotoxin</b>     | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>       | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.  |
| <b>Shipping</b>      | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C. |
| <b>Formulation</b>   | Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol, 2mM DTT  |

### Data



> 85 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

Discoidin domain receptor family, member 1 (DDR1), also known as or CD167a (cluster of differentiation 167a), and Mammary carcinoma kinase 10 (MCK10), belongs to a subfamily of tyrosine kinase receptors with an extracellular domain homologous to Dictyostellium discoideum protein discoidin 1. Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. Expression of DDR1/MCK10/CD167 is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. DDR1/MCK10/CD167 plays an important role in regulating attachment to collagen, chemotaxis, proliferation, and MMP production in smooth muscle cells. DDR1 functions in a feedforward loop to increase p53 levels and at least some of its effectors. Inhibition of DDR1 function resulted in strikingly increased apoptosis of wild-type p53-containing cells in response to genotoxic stress through a caspase-dependent pathway.