

Active Recombinant Mouse Discoidin Domain Receptor Family, Member 1

Cat. No. Ddr1-391M **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant mouse Ddr1 protein was expressed in Murine myeloma cell line, NS0-derived. Met1-Thr414. |
| Species | Mouse |
| Source | Mammalian Cells |
| Protein Length | 1-414 a.a. |
| Description | Ddr1, also known as CAK, NEP, CD167a, and EDDR1, is a 120 140 kDa type I transmembrane glycoprotein belonging to the discoidin-like domain-containing subfamily of receptor tyrosine kinases. Mature mouse Ddr1 consists of a 395 aa extracellular domain (ECD) that includes the discoidin-like domain, a 27 aa transmembrane segment, and a 470 aa cytoplasmic domain with the tyrosine kinase domain. Within the ECD, mouse Ddr1 shares 93% aa sequence identity with human and rat Ddr1, respectively. |
| Form | Lyophilized from a 0.2 µm filtered solution in PBS. |
| N-terminal Sequence | Asp22 |
| Molecular Weight | 71.1 kDa |
| Activity | Measured by its binding ability in a functional ELISA. Immobilized Collagen I at 10 |

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µg/mL(100 µL/well) can bind Recombinant Mouse DDR1 Fc Chimera with an apparent KD< 20 nM. Optimal dilutions should be determined by each laboratory for each application.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 300 µg/mL in PBS.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name [Ddr1 discoidin domain receptor family, member 1 \[Mus musculus \]](#)

Official Symbol [Ddr1](#)

Synonyms Ddr1; discoidin domain receptor family, member 1; Cak; Nep; PTK3A; CD167a; AI323681;6030432F18; OTTMUSP00000040506; OTTMUSP00000040507; OTTMUSP00000040508; OTTMUSP00000040509; OTTMUSP000000405010; OTTMUSP000000405011; OTTMUSP000000405012; OTTMUSP000000405013; OTTMUSP00000053933; OTTMUSP00000040546; epithelial discoidin domain-containing receptor 1; tyrosine kinase DDR; cell adhesion kinase; tyrosine-protein kinase MPK-6; CD167 antigen-like family member A; discoidin receptor tyrosine kinase; epithelial discoidin domain containing receptor 1; EC 2.7.10.1; tyrosine-protein kinase CAK

Gene ID [12305](#)

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| mRNA Refseq | NM_007584 |
| Protein Refseq | NP_031610 |
| UniProt ID | Q03146 |
| Chromosome Location | 17 |
| Function | ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity |

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