

Active Recombinant Mouse Discoidin Domain Receptor Family, Member 1

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

SPECIFICATION

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; kinaseactivity; nucleotide binding; protein kinase activity; protein tyrosinekinase activity; receptor activity; transferase activity, transferringphosphorus-containing groups; transmembrane receptor protein tyrosine kinaseactivity

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