

Active Recombinant Mouse Ddr1 Protein, Fc-tagged

Cat. No. Ddr1-11069M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse DDR1, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Asp 22 - Thr 414 (Accession # Q03146-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Asp 22
Species	Mouse
Source	HEK293
ProteinLength	22-414 aa
Description	Discoidin domain receptor 1 (DDR1) is a member of DDRs, which are members of the receptor tyrosine kinase (RTK). Upon collagen binding, DDR1 undergoes tyrosine autophosphorylation, which consequently triggers downstream genetic and cellular pathways and plays critical roles in the regulation of cellular morphogenesis, differentiation, proliferation, adhesion, migration, and invasion. Research shows that DDR1 is closely related to various human diseases including cancer, fibrosis, atherosclerosis, and other inflammatory disorders. New generation DDR1 inhibitors targeting the allosteric sites outside of the canonical ATP-binding pocket or extracellular domain (allosteric inhibitors) may offer a new opportunity for selective DDR1 inhibition therapy development.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Native Human Collagen I protein at 10

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	µg/mL (100 µL/well) can bind Mouse DDR1, Fc Tag with a linear range of 0.039-1.25 µg/mL.
Molecular Mass	The protein has a calculated MW of 70.2 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Ddr1 discoidin domain receptor family, member 1 [<i>Mus musculus</i>]
Official Symbol	DDR1
Synonyms	DDR1; discoidin domain receptor family, member 1; epithelial discoidin domain-containing receptor 1; tyrosine kinase DDR; cell adhesion kinase; tyrosine-protein kinase CAK; protein-tyrosine kinase MPK-6; CD167 antigen-like family member A; discoidin receptor tyrosine kinase; epithelial discoidin domain receptor 1; Cak; Nep; PTK3A; CD167a; AI323681; 6030432F18;

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Gene ID	12305
mRNA Refseq	NM_001198831
Protein Refseq	NP_001185760
UniProt ID	Q03146

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