

Active Recombinant Human DDR1 protein, GST-tagged

Cat. No. DDR1-29455TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDR1(444-end) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	444-end a.a.
Description	DDR1 is a member of the subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in its extracellular domain. DDR1 is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. expression of DDR1 is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain and DDR1 is over-expressed in fast-growing invasive tumors of the breast, ovary, esophagus, brain and lung. Collagen type I mediated stimulation of DDR1 leads to activation of matrix metalloproteinase 2 and 9 as well as increased cell invasion.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	5 nmol/min/mg
Molecular Mass	~77 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Stability	1 year at -70 centigrade from the date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	DDR1 discoidin domain receptor tyrosine kinase 1 [Homo sapiens]
Official Symbol	DDR1
Synonyms	DDR1; discoidin domain receptor tyrosine kinase 1; CAK, discoidin domain receptor family, member 1 , EDDR1, NEP, NTRK4, PTK3A; epithelial discoidin domain-containing receptor 1; CD167; RTK6; tyrosine kinase DDR; cell adhesion kinase; mammary carcinoma kinase 10; tyrosine-protein kinase CAK; protein-tyrosine kinase RTK-6; neuroepithelial tyrosine kinase; PTK3A protein tyrosine kinase 3A; CD167 antigen-like family member A; neurotrophic tyrosine kinase, receptor, type 4; CAK; DDR; NEP; HGK2; PTK3; TRKE; EDDR1; MCK10; NTRK4; PTK3A;
Gene ID	780
mRNA Refseq	NM_001954
Protein Refseq	NP_001945

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MIM	600408
UniProt ID	Q08345
Chromosome Location	6p21.33
Function	ATP binding; collagen binding; collagen binding; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase collagen receptor activity; receptor activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity;
	