

Recombinant Human DDR1, GST-tagged

Cat. No. DDR1-509H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human DDR1, (amino acids 444 – end) with N-terminal GST tag expressed in *Baculovirus infected Sf9 cell* expression system. MW= 76 kDa.

Species Human

Source Sf9 Cells

Protein Length 444-end a.a.

Description

Receptor tyrosine kinases (RTKs) play a key role in the communication of cells with their microenvironment. These molecules are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene is a RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain. Its autophosphorylation is achieved by all collagens so far tested (type I to type VI). In situ studies and Northern-blot analysis showed that expression of this encoded protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, this protein is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and pediatric brain. This gene is located on chromosome 6p21.3 in proximity to several HLA class I genes. Alternative splicing of this gene results in multiple transcript variants.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>80%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 50% glycerol and 3mM DTT.
Stability	>12 months at -80°C.

GENE INFORMATION

Gene Name	DDR1 discoidin domain receptor tyrosine kinase 1 [Homo sapiens]
Synonyms	DDR1; discoidin domain receptor tyrosine kinase 1; DAAP-278B20.1; CAK; CD167; DDR; EDDR1; MCK10; NEP; NTRK4; PTK3; PTK3A; RTK6; TRKE; OTTHUMP00000029344; OTTHUMP00000029345; OTTHUMP00000029346; OTTHUMP00000029347; PTK3A protein tyrosine kinase 3A; cell adhesion kinase; discoidin domain receptor family, member 1; discoidin receptor tyrosine kinase; epithelial discoidin domain receptor 1; mammarian carcinoma kinase 10; neuroepithelial tyrosine kinase; neurotrophic tyrosine kinase, receptor, type 4; EC 2.7.10.1
Gene ID	780
mRNA Refseq	NM_001954
Protein Refseq	NP_001945
MIM	600408
UniProt ID	Q08345

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Chromosome Location	6p21.3
Function	ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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