

DDR1 Protein, Human, Recombinant (aa 21-417, His)

General Information

Synonyms:	DDR1;EDDR1;HGK2;Discoidin receptor tyrosine kinase;Epithelial discoidin domain-containing receptor 1;CAK;CD167 antigen-like family member A;CD167a;NTRK4;RTK6;PTK3A;Mammary carcinoma kinase 10 (MCK-10);TRK E;Protein-tyrosine kinase 3A;Protein-tyrosine kinase RTK-6;Epithelial discoidin domain receptor 1;Tyrosine-protein kinase CAK;TRKE;NEP;Tyrosine kinase DDR;Cell adhesion kinase
Protein Construction:	21-417 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q08345
Molecular Weight:	46.8 kDa (predicted)
AA Sequence:	DMKGFHDPKCRYALGMQDRTIPDSDISASSWSNSTAARHSRLESSDGDGAWCPAGSVFPKEEYLQVDL QRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMGWKDRWGWQEVISGNEDPEGVVLKDLGPPMVA RLVRFYPRADRVMSVCLRVELYGCLWRDGLLSYAPVGTMYLSEAVYLNDSTYDGHVGGGLQYGGGLGQLA DGVVGLDDFRKSQELRVWPGYDYVGSNHSFSSGYVEMEFDFRLRAFQAMQVHCNNMHTLGARLPGGV ECRFRRGPAWEGEPMRHNLGGNLGDPRARAVSVPLGGRVARFLQCRFLFAGPWLLFSEISFISDVVNNSS PALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTA

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Human DDR1 at 2 µg/mL can bind Anti-DDR1 recombinant antibody, the EC 50 is 2.824-3.810 ng/mL.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing. Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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