Proteins



Product Data Sheet

DDR2 Protein, Rat (HEK293, His)

Cat. No.: HY-P75297

Synonyms: Discoidin domain-containing receptor 2; CD167b; Ddr2; Ntrkr3; Tkt; Tyro10

Species: Rat

Source: HEK293

B1WC09 (Q24-R399) Accession:

Gene ID: 685781

Molecular Weight: Approximately 50-70 kDa due to the glycosylation

PROPERTIES

AA Sequence	QVNPAICRYP LGMSGGHIPD EDITASSQWS ESTAAKYGRL DSEEGDGAWC PEIPVQPDDL KEFLQIDLRT LHFITLVGTQ GRHAGGHGIE FAPMYKINYS RDGNRWISWR NRHGKQVLDG NSNPYDVFLK DLEPPIVARF VRLIPVTDHS MNVCMRVELY GCVWLDGLVS YNAPAGQQFV LPGGSIIYLN DSVYDGAVGY SMTEGLGQLT DGVSGLDDFT QTHEYHVWPG YDYVGWRNES ATNGFIEIMF EFDRVRNFTT MKVHCNNMFA KGVKIFKEVQ CYFRSETSEW EPTAVYFPLV LDDVNPSARF VTVPLHHRMA SAIKCQYHFA DTWMMFSEIT FQSDAAMYNN SGALPTSPMA
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Collagen I at 10 μ g/mL can bind Rat DDR2 with an apparent KD is 7.841 nM.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

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Background

DDR2 protein, a tyrosine kinase integral to the regulation of tissue remodeling, functions as a cell surface receptor for fibrillar collagen, exerting control over cell differentiation, extracellular matrix remodeling, cell migration, and proliferation. Crucial for normal bone development, DDR2 plays a central role in osteoblast differentiation and chondrocyte maturation through a signaling pathway involving MAP kinases, culminating in the activation of the transcription factor RUNX2. Additionally, DDR2 regulates extracellular matrix remodeling by up-regulating collagenases MMP1, MMP2, and MMP13, thereby facilitating cell migration and tumor cell invasion. Its involvement extends to promoting fibroblast migration and proliferation, contributing to the dynamic process of cutaneous wound healing.

Caution: Product has not been fully validated for medical applications. For research use only.

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