
Product Data Sheet

Product Name: DDR2 Human
 Cat. No.: GP22481
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Discoidin domain-containing receptor 2; DDR2; MIG20a; NTRKR3; TKT; TYRO10; Discoidin Domain Receptor Tyrosine Kinase 2; CD167 antigen-like family member B; Discoidin domain-containing receptor tyrosine kinase 2; Neurotrophic tyrosine kinase; receptor-related 3; Receptor protein-tyrosine kinase TKT; Tyrosine-protein kinase TYRO10; CD_antigen: CD167b.		
Amino Acid Sequence	KAQVNPAICR YPLGMSGGQI PDEDITASSQ WSESTAAKYG RLDSEEGDGA WCPEIPVEPD DLKEFLQIDL HTLHFITLVG TQGRHAGGHG IEFAPMYKIN YSRDGTRWIS WRNRHGKQVL DGNSNPYDIF LKDLEPPIVA RFVRFIPVTD HSMNVCMRVE LYGCVWLDGL VSYNAPAGQQ FVLPGGSIY LNDSVYDGAV GYSMTEGLGQ LTDGVSGLDD FTQTHEYHVW PGYDYVGWRN ESATNGYIEI MFEFDRIRNF TTMKVHCNNM FAKGVKIFKE VQCYFRSEAS EWEPNAISFP LVLDDVNPSA RFVTVPLHHR MASAICQYH FADTWMMFSE ITFQSDAAMY NNSEALPTSP MAPTTYDPML KVDDSNTRLE HHHHHH.		
Formulation	DDR2 solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Discoidin Domain Receptor Tyrosine Kinase 2 (DDR2) which is mostly expressed in mesenchymal cells is a part of the discoidin-like domain containing subfamily of receptor tyrosine kinases. DDR2 whose ligand is fibrillar collagen rather than a growth factor-like peptide is unique among RTKs. DDR2 regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. DDR2 is also essential for normal bone development.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DDR2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 386 amino acids (22-399a.a) and having a molecular mass of 43.7kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). DDR2 is fused to 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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