

## Product Data Sheet

## DDR2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76868
Synonyms:	Discoidin domain-containing receptor 2; CD167b; Ddr2; Ntrkr3; Tkt; Tyro10
Species:	Human
Source:	HEK293
Accession:	Q16832 (M1-R399)
Gene ID:	4921
Molecular Weight:	Approximately 87 kDa

PROPERTIES	
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
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 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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