# Recombinant Human DDR2/CD167b Kinase

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Catalog No.: RP03328LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 4921 016832

Tags N-GST

**Synonyms** 

DDR2; NTRKR3; TKT; TYRO10; CD167b; Discoidin domain-containing receptor 2

# **Product Information**

SourcePurificationBaculovirus-Insect≥ 90 % asCellsdetermined by

determined by SDS-PAGE;≥ 90 % as determined by HPLC.

#### Calculated MW Observed MW

75.9 kDa 60-80 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

## **Formulation**

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

#### Reconstitution

Please use running water to thaw it quickly.

## Contact

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|-----------|---|---------------------------|
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# **Background**

Discoidin domain-containing receptor 2 (DDR2) also known as CD167b is a receptor tyrosine kinase (RTK). The biochemical mechanism by which RTKs transduce signals across the membrane has been shown to be ligand induced receptor oligomerization and subsequent intracellular phosphorylation. In the case of DDR2, the ligand is collagen which binds to its extracellular discoidin domain. This autophosphorylation leads to phosphorylation of cytosolic targets as well as association with other molecules, which are involved in pleiotropic effects of signal transduction. DDR2 has been associated with a number of diseases including fibrosis and cancer.

## **Basic Information**

#### Description

Recombinant Human DDR2/CD167b Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Arg422-Glu855) of Human DDR2 (Accession #Q16832) fused with a N-GST tag.

### **Bio-Activity**

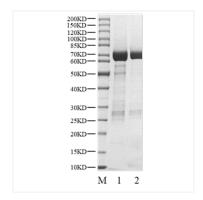
The activity of DDR2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

#### Storage

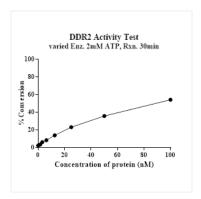
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10  $\mu\text{L}$  are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Recombinant Human DDR2/CD167b Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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