

Catalog Number: Eg3226

Basic Information**Species:**
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag**Technical Specifications****Purity:**

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rat DDR1 protein Asp22-Thr413 (Accession# A6KT95) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

25678

Accession:

A6KT95

Predicted Molecular Mass:

69.9 kDa

SDS-PAGE:

70-85 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Discoidin Domain Receptor 1 (DDR1) is a receptor tyrosine kinase that is activated by fibrillar collagens, playing a pivotal role in cellular functions such as proliferation, differentiation, invasion, migration, survival, matrix remodeling, and cytokine expression. DDR1 is predominantly found in epithelial and smooth muscle cells, and its expression is mainly limited to epithelial cells located in several organs, including skin, kidney, liver, and lung. DDR1 has been implicated in a wide range of human diseases, including various types of cancer, fibrosis (such as liver/kidney/pulmonary fibrosis), inflammation, and atherosclerosis. High expression or mutation of DDR1 is associated with many cancers.

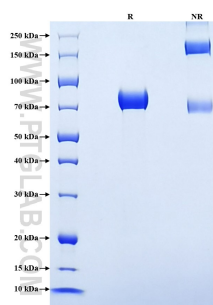
References

1. Liu M. et al. (2024). Eur J Med Chem. 268:116291.
2. Moll S. et al. (2019). Biochim Biophys Acta Mol Cell Res. 1866(11):118474.
3. Hou G. et al. (2002). Circ Res. 90(11):1147-1149.

Synonyms

CAK, CD167 antigen-like family member A, CD1671, CD167a, Cell adhesion kinase

Selected Validation Data



Purity of Recombinant Rat DDR1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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