

# Recombinant Rat CD109 protein (His tag)

Catalog Number: PDER100084



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

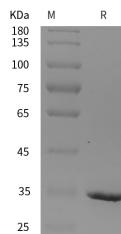
## Description

<b>Synonyms</b>	CD109 molecule;CD109
<b>Species</b>	Rat
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ser 1141-Thr 1420
<b>Accession</b>	D4A447
<b>Calculated Molecular Weight</b>	30.7 kDa
<b>Observed molecular weight</b>	35 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD109 is a GPI-anchored member of the alpha-2-macroglobulin (A2M) and complement family of proteins. Cleavage of A2M family proteins within the bait region activates the thioester bond to promote covalent bonding to nucleophilic groups in adjacent molecules. It shares 27-33% aa sequence identity with A2M and complement factors C3, C4, and C5. Alternate splicing of human CD109 generates two isoforms with short deletions and one that is truncated within the bait region. CD109 is expressed on activated T cells and platelets, hematopoietic stem cells, megakaryocyte precursors, vascular endothelial cells, basal and myoepithelial cells of secretory glands, and squamous cell carcinomas.

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