Recombinant Rat CD109 Protein (His Tag)

Catalog Number: PDER100228

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

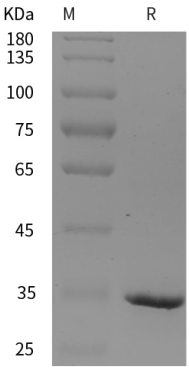
Description

Species	Rat
Source	E.coli-derived Rat CD109 protein Ser1141-Thr1420, with an N-terminal His
Calculated MW	30.7 kDa
Observed MW	35 kDa
Accession	D4A447
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat CD109 proteins, 2 μg/lane of Recombinant Rat CD109 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 kDa.

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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