Recombinant Rat CLP1/COLEC12 Protein (His Tag)

Catalog Number: PKSR030187

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

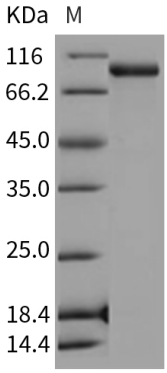
Description

Species	Rat
Source	Baculovirus-Insect Cells-derived Rat CLP1/COLEC12 protein Ala101-Leu742, with an N-terminal His
Calculated MW	72.4 kDa
Observed MW	90 kDa
Accession	Q4V885
Bio-activity	Not validated for activity

Properties

Purity	> 99 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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 sterile 20mM Tris, 500mM NaCl, pH 8.0 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 99 % as determined by reducing SDS-PAGE.

Background

CLP1, also known as COLEC12, is a scavenger receptor that displays several functions associated with host defens e. It contains 1 C-type lectin domain and 3 collagen-like domains. CLP1 is strongly expressed in placenta and moderately expressed in heart, skeletal muscle, small intestine and lung. It promotes binding and phagocytosis of Gram-positive, Gram-negative bacteria and yeast. CLP1 mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. It binds to several carbohydrates including Gal-type ligands, D-galactose, L- and D-fucose, GalNAc, T and Tn antigens in a calcium-dependent manner and internalizes specifically GalNAc in nurse-like cells. It binds also to sialyl Lewis X or a trisaccharide and asialo-orosomucoid (ASOR). CLP1 may also play a role in the clearance of amyloid beta in Alzheimer disease.

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