Data Sheet (Cat.No.TMPY-02828)

TargetMol

CCL21 Protein, Rhesus, Recombinant

General Information

Synonyms:	CCL21;chemokine (C-C motif) ligand 21
Protein Construction:	A DNA sequence encoding the rhesus CCL21 (NP_001028027.1) (Met 1-Pro131) was expressed and purified. Predicted N terminal: Ser 24
Species:	Rhesus
Expression Host:	Baculovirus Insect Cells
Accession:	Q8HYP5
Molecular Weight:	12 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 94 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue

maintenance and development. There are four members of the chemokine family: C-C kemokines, C kemokines, CXC kemokines and CX3C kemokines. The C-C kemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called C-C chemokine ligands-1 to 28. Chemokine ligand 21(CCL21), also known as 6Ckine, exodus-2, and secondary lymphoid-tissue chemokine (SLC), is a small cytokine belonging to the C-C chemokine family. CCL21 takes its name 6Ckine for its consititutively six conserved cysteine residues but not four cysteines typical to chemokines. CCL21 has function in ininducing vigorous calcium migrations and chemotactic responses.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

Reference

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