

Recombinant Mouse C-C Chemokine Receptor Type 7 (Ccr7), N-His

Cat. No.: AP4C812

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse C-C Chemokine Receptor Type 7 (Ccr7), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 13.9 kDa. The purity is > 90%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 90%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	13.9 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse C-C Chemokine Receptor Type 7 (Ccr7) is a G protein-coupled receptor that plays a crucial role in the immune system by mediating the migration of dendritic cells (DCs) and T cells to lymph nodes. Ccr7 interacts with its ligands CCL19 and CCL21, which are expressed by stromal cells in lymphoid tissues, guiding immune cells to the T-cell zones where they can initiate antigen presentation and T-cell activation. In mouse models, Ccr7 is essential for the proper organization of secondary lymphoid structures and the regulation of immune responses. Abnormal expression of Ccr7 has been implicated in various diseases, including cancer, where it can promote tumor metastasis to lymph nodes. Additionally, Ccr7 has been shown to play a role in the pathophysiology of inflammatory diseases and may serve as a potential target for immunotherapy.

Protein	Mouse C-C Chemokine Receptor Type 7 (Ccr7)
Protein Synonym	C-C CKR-7; CC-CKR-7; CCR-7; CD197
Gene ID	12775
EC No.	P47774

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.