

Rcombinant Rat Clec4a3, Fc-tagged

Cat. No. Clec4a3-42R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the rat CLEC4A3(Q5YIS0) (Leu68-Leu237) was expressed with Fc region of human IgG1 at the N-terminus.
Species	Rat
Source	Human Cells
ProteinLength	68-237 a.a.
Description	CLEC4A3 contains 1 C-type lectin domain and belongs to the C-type lectin-like domain-containing (CLEC) family. Lectins are proteins that are able to recognize and bind with specific carbohydrate molecules. C-type lectins are an important group of proteins found in the immune system of animals. These lectins are named C-type because of their calcium dependent carbohydrate recognition domain (CRD). In the immune system, C-type lectins act as recognition molecules by binding to foreign microorganisms. They also promote the movement and selective adhesion of white blood cells. The C-type lectin has a three-dimensional fold, the CRD, in which calcium ions contribute to the lectins ability to recognize and bind carbohydrates. In the immune system, carbohydrate recognition contributes to the ability of immune cells to move from one area of the body to another. It also allows immune cells to identify and discriminate between proteins that belong to the host and those that belong to foreign organisms. There are a number of different C-type lectin subfamilies, including collectins, selectins, proteoglycans, and lymphocyte lectins.

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Predicted N Terminal	Glu
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant rat CLEC4A3 comprises 430 amino acids and predicts a molecular mass of 48.3 kDa. The apparent molecular mass of the recombinant protein is approximately 58 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 eu per ug of the protein as determined by the lal
Purity	>85 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

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