

Recombinant Rat CLEC4A3 Protein (Leu68-Leu237), His-tagged

Cat. No. CLEC4A3-953R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CLEC4A3 Protein (NP_001005891.1) (Leu68-Leu237) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the N-terminus.
Species	Rat
Source	HEK293
ProteinLength	Leu68-Leu237
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 lectin's 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

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	collectins, selectins, proteoglycans, and lymphocyte lectins.
Predicted N Terminal	His
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat CLEC4A3 consists of 189 amino acids and predicts a molecular mass of 22.2 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Clec4a3 C-type lectin domain family 4, member A3 [<i>Rattus norvegicus</i> (Norway rat)]
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Official Symbol	CLEC4A3
Synonyms	Dcir3
Gene ID	362431
mRNA Refseq	NM_001005891
Protein Refseq	NP_001005891
UniProt ID	Q5YIS0

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