

## Allergin 1 Protein, Mouse, Recombinant (hFc)

### General Information

Synonyms:	Gm885;mast cell immunoglobulin-like receptor 1;Allergin-1;Mca32
Protein Construction:	A DNA sequence encoding the mouse MILR1 (NP_001028607.1) (Met1-Ser150) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ile 34
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q3TB92-1
Molecular Weight:	39.8 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:	> 95 % 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, pH 7.4. 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### 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

MILR1 (Mast Cell Immunoglobulin Like Receptor 1, also known as MCA32) is a Protein Coding gene. It is broadly expressed in the appendix, lymph node, and other tissues. Cell surface immunoreceptor MILR1 has been shown to suppress immunoglobulin E (IgE)-mediated, mast cell-dependent responses in both mice and humans. The C allele of rs6504230 was associated with increased expression of MILR1, which was following the results of expression quantitative trait loci analysis using human leukocytes. The rs6504230 polymorphism affects MILR1

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expression levels in humans, leading to a susceptibility to producing specific IgE antibodies against common allergens. Diseases associated with MILR1 include Mitochondrial Dna Depletion Syndrome 16 and Autosomal Dominant Progressive External Ophthalmoplegia.

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