Data Sheet (Cat.No.TMPK-00670)

TargetMol

IgE Protein, Cynomolgus, Recombinant (His & Avi)

General Information

Synonyms:	Ig epsilon chain C region;Ig ε chain C region;IgE
Protein Construction:	Lys208-Lys429
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G8F4W7
Molecular Weight:	27.9 kDa (predicted). Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus IgE, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-IgE Antibody, hFc Tag with the EC50 of 9.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/μg by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Immunoglobulin E (IgE) is well known for its role in allergic disease, the manifestations of which are mediated through its two Fc receptors, FcεRI and CD23 (FcεRII). IgE and its interactions with these receptors are therefore potential targets for therapeutic intervention, and exciting progress has been made in this direction. Furthermore, recent structural studies of IgE-Fc, the two receptors, and of their complexes, have revealed a remarkable degree of plasticity at the IgE-CD23 interface and an even more remarkable degree of dynamic flexibility within the IgE

molecule.

Reference

Sutton BJ, Davies AM. Structure and dynamics of IgE-receptor interactions: FcεRI and CD23/FcεRII. Immunol Rev. 2015 Nov;268(1):222-35. doi: 10.1111/imr.12340. PMID: 26497523.

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