Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Cynomolgus IgE D2-D4 Protein; His Tag

Product Information

Product Name Cynomolgus IgE D2-D4 Protein; His Tag

Storage temp Store at \leq -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88194RP-100 / 100 μg

GM-88194RP-1000 / 1 mg

Protein Information

Alternative Names IgE, IGHE

Source Cynomolgus IgE D2-D4 Protein; His Tag (GM-88194RP) is expressed from

human 293 cells (HEK-293). It contains AA Pro 111 - Lys 429 (Accession #

G8F4W7).

This protein carries a His tag at the N-terminus.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 36.3 KDa

Formulation Supplied as a 0.2 µm filtered solution of PBS, pH7.2-7.4.

Description IgE, or immunoglobulin E, is a class of antibodies primarily produced by plasma

cells in mucosal tissues and the skin. It plays a central role in type I hypersensitivity and allergic reactions. IgE molecules have a typical Y-shaped structure consisting of two heavy chains and two light chains, with high affinity for the Fc epsilon receptor (FceRI) on the surface of mast cells and basophils. Upon allergen exposure, allergen-specific IgE binds to FceRI, sensitizing these effector cells and enabling rapid release of mediators such as histamine, leukotrienes, and cytokines when the allergen is encountered again, leading to symptoms ranging from rhinitis and urticaria to anaphylaxis in severe cases.

Beyond immediate hypersensitivity, IgE is involved in defense against parasitic infections and contributes to immune regulation at mucosal surfaces. Its production is driven by T helper 2 (Th2) cells and cytokines like IL-4 and IL-13, and is tightly regulated to prevent excessive responses. Clinically, IgE levels are used in allergy diagnostics and monitoring, and targeted therapies (e.g., anti-IgE monoclonal antibodies) are employed to treat severe allergic diseases and asthma, aiming to reduce IgE-mediated mast cell activation and downstream

inflammatory cascades.

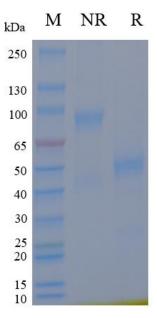
Version:4.0

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SDS-PAGE

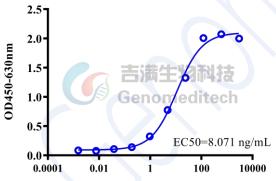


On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 μg Cynomolgus IgE D2-D4 Protein; His Tag of per well



Anti-IGHE hIgG1 Reference Antibody(Omalbio).(ng/mL)

Cynomolgus IgE D2-D4 Protein; His Tag (Catalog # GM-88194RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IGHE hIgG1 Reference Antibody (Omalbio) (Catalog # GM-87960MAB) were added.