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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Biotinylated Human IgE D2-D4 Protein; His-Avi

Tag

Product Information

Product Name Biotinylated Human IgE D2-D4 Protein; His-Avi 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-88244RP-25 / 25 μg

GM-88244RP-200 / 200 µg

Protein Information

Alternative Names IgE, IGHE

Source Biotinylated Human IgE D2-D4 Protein; His-Avi Tag (GM-88244RP) is

expressed from human 293 cells (HEK-293). It contains AA Ser 106 - Lys 428

(Accession # P01854-1).

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

Purity > 95% as determined by SDS-PAGE

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

Predicted Mol Mass 38.5 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

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,

cells in mucosal tissues and the skin. It plays a central role in type I

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. IgE levels are used in allergy diagnostics and monitoring, and targeted therapies are employed to treat

severe allergic diseases and asthma, aiming to reduce IgE-mediated mast cell

activation and downstream inflammatory cascades.

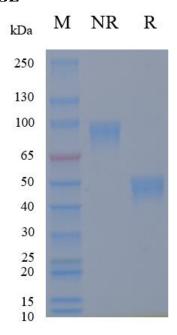
Version:4.0

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SDS-PAGE

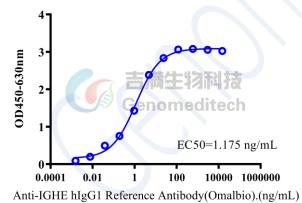


On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.1 µg Biotinylated Human IgE D2-D4 Protein; His-Avi Tag of per well



Biotinylated Human IgE D2-D4 Protein; His-Avi Tag (Catalog # GM-88244RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Anti-IGHE hIgG1 Reference Antibody (Omalbio) (Catalog # GM-87960MAB) were added.