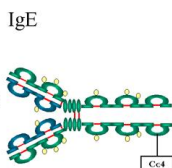


Human Plasma IgE Protein

Cat#20007-3-LE-50
Cat#20007-3-LE-BTN

Human IgE (myeloma, kappa), purified (isotype control, >95%, low endotoxin)
Human IgE-Biotin (myeloma, kappa), purified (isotype control, >95%, low endotoxin)

Size: □ 100 ug
Size: □ 100 ul



- Structure
 - Monomer
 - Extra domain (C_{H1})

Immunoglobulin E (IgE) is a kind of antibody (or immunoglobulin (Ig) "isotype") that has only been found in mammals. Monomers of IgE consist of two heavy chains (ε chain) and two light

chains, with the ε chain containing 4 Ig-like constant domains (Cε1-Cε4). IgE's main function is immunity to parasites such as helminths like *Schistosoma mansoni*, *Trichinella spiralis*, and *Fasciola hepatica*. IgE is utilized during immune defense against certain protozoan parasites such as *Plasmodium falciparum*.

Human plasma was used for the purification of IgE. IgG was prepared by ammonium sulfate, and column chromatography (Sephadex, and DEAE-ion exchange columns) and affinity chromatography. The resulting preparation was judged to be >96% pure by IEP and SDS-Page. Purified IgE produced a single arc against anti-human serum and anti-human IgE. It does not react with anti-human IgA, IgD, IgG and IgM in IEP assay.

Form and Storage

Cat# 20007-3-LE-50, unlabeled

Human IgE is provided as liquid (1 mg/ml or 50 ug/50 ul in Tris buffer, pH 7.5 and 0.05% azide as preservative) as liquid or in lyophilized form. The product should be **stored at 4°C** for short term and **-20°C** for long term storage. It is stable for a minimum of 1 year. Do not store diluted solutions. Sodium azide, an inhibitor of peroxidase, must be avoided if used with antibody-HRP conjugates. Due to low volume, it is recommended to briefly centrifuge the tubes, before opening the cap, to recover to solution at the bottom of the tube.

The **lyophilized products** should be dissolved in PBS, pH 7.4 to prepare desired concentration by gentle rocking or vortexing at room temperature. Centrifuge the IgG solution briefly (10,000 g, 15 min) to remove any particulate matter. It should be aliquoted and stored frozen for long term use.

Suggested Uses

This preparation of normal human IgE is suitable for coating the ELISA plates or as a control for other immunological assay, dot blot, Western etc. Recommended coating concn. is approx. 10 ug/ml for ELISA. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts

and may give slightly higher background. Switching to another preparation from different mouse or vendor may alleviate this problem.

Cat# 20007-3-LE-BTN, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 1% BSA and 0.05% azide in either lyophilized or liquid form (see lot sp. concn on the vial). Reconstitute powder in PBS in 100 ul to prepare 1 mg/ml solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA.

Country of origin: All material is derived from US sources and USDA inspected and approved animal research facilities.

All human derived material has been tested negative for HIV, HCV, and HbSag. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

This product is for in vitro research use only.

Related items available from ADI

Catalog#	Prod Description
20007-3-LE-50	Human IgE (myeloma, kappa), purified (isotype control, >95%, low endotoxin, azide free)
20007-3-LE-BTN	Human IgE-Biotin (myeloma, kappa), purified (isotype control, >95%, low endotoxin, azide free)
20007-3L-100	Human IgE (myeloma, lambda), purified (isotype control)
20007-3L-1000	Human IgE (myeloma, lambda), purified (isotype control)
200-430-XET	Human IgE (total) ELISA Kit for Xolair-treated samples, 96 tests
200-440-XEF	Human IgE (Free; Xolair unbound) ELISA Kit for Xolair-treated samples, 96 tests
AD-124-B	Human IgE (4.4.12), DNA Aptamer, Biotinylated
20007-3-LE-IgE-Low-Endotoxin	160205SV