

Catalog# BP-50553

## **Omalizumab Biosimilar, Human IgE Monoclonal Antibody**

Omalizumab is a humanized antibody used to reduce sensitivity to inhaled or ingested allergens, especially in the control of moderate to severe allergic asthma which does not respond to high doses of corticosteroids.

Immunoglobulin E (IgE) found in mammals only exists as monomers consisting of two heavy chains ( $\epsilon$  chain) and two light chains, with the  $\epsilon$  chain containing 4 Ig-like constant domains (C $\epsilon$ 1-C $\epsilon$ 4). In addition to immunity to parasites, IgE plays an essential role in type I hypersensitivity, which manifests various allergic diseases, and allergic conditions, such as anaphylactic reactions to certain drugs, bee stings, and antigen preparations used in specific desensitization immunotherapy.

Product Details	
CAS No.	242138-07-4
Species Reactivity	Human IgG1
Source	Omalizumab biosimilar CHO stable cell line
Isotype	Human IgG1 kappa
Class	Monoclonal
Type	Antibody
Clone	Omalizumab Biosimilar
Conjugate	Unconjugated
Immunogen	Human immunoglobulin E (IgE) free in the blood and interstitial fluid and to membrane-bound form of IgE (mIgE) on the surface of mIgE-expressing B lymphocytes. Unlike an ordinary anti-IgE antibody, omalizumab does not bind to IgE that is already bound by the high affinity IgE receptor (FcεRI) on the surface of mast cells, basophils, and antigen-presenting dendritic cells.
Purity	>95%
Molecular Weight	146.46 kDa
Protein Concentration	1 mg/ml
Formulation	0.2 µM filtered PBS solution, pH 6.0
Storage conditions	4°C for short time, -20°C or -80°C for long time.