

## Recombinant Human sCD23 (FCER2)

Cat No:HR2R1941

For research use only

### Overview

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| Quantity           | 20 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Symbol        | FCER2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID            | 2208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Accession          | P06734                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Alternative Name   | Low affinity immunoglobulin epsilon Fc receptor, BLAST-2, Fc-epsilon-RII, Immunoglobulin E-binding factor, Lymphocyte IgE receptor, CD23, B cell differentiation antigen<br>Recombinant Human C-type Lectin Domain Family 4 Member J (FCER2)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Species            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Source             | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Description        | CD23 is a calcium dependent transmembrane glycoprotein which is expressed in many cell types. The cytoplasmic region of the protein has two isoforms the 'a' isoform that participates in IgE-regulated endocytosis, and the 'b' isoform, which is involved in IgE-regulated phagocytosis. It has been found that there are at least four soluble forms of the CD23 protein (sCD23) all of which are produced by the activity of metallo/cysteine proteases. In addition to binding IgE, sCD23 have been shown to promote the activation and differentiation of B-cells and stimulate the release of pro-inflammatory cytokines from monocytes. |
| Functions          | Measured by its ability to bind in a functional ELISA. Immobilized rhCD23 at 2 µg/mL (100 µL/well) can bind human IgE with a linear range of 0.015-1 µg/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formulation        | Lyophilized from a 0.2 µm filtered solution in PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Solubility         | Reconstitute at 100 µg/mL in sterile PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Appearance         | Lyophilized Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Weight   | 19.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity             | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Concentration      | <1.0 EU/µg of recombinant protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Shipping Condition | Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage Condition  | The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                  |