sCD23 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: CD23 antigen, Fc-epsilon-RII, Lymphocyte IgE receptor, BLAST-2

Cat. No.:

RBG10097005	(5 µg)
RBG10097020	(20 µg)
RBG10097100	(100 µg)

Description

CD23, the low affinity receptor for IgE, belongs to the C-type lectin structural family and plays a role in the regulation of IgE synthesis and IgE mediated activities. It is found both as a transmembrane receptor protein and in a soluble form, which is generated by proteolytic cleavage of membrane bound CD23. The predominant soluble form of CD23 (sCD23) consists of 172 amino acids corresponding to the extracellular domain of the full length precursor. sCD23, in addition to binding IgE, also exerts a number of IgE-independent activities, such as promoting the activation and differentiation of B-cells and stimulating the release of pro-inflammatory cytokines from monocytes. Recombinant Human sCD23 is a 19.2 kDa non-glycosylated protein containing 172 amino-acid residues.

Research topic

Immune Response, Infection and Inflammation

Amino Acid Sequence

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MELQVSSGFV CNTCPEKWIN FQRKCYYFGK GTKQWVHARY ACDDMEGQLV SIHSPEEQDF LTKHASHTGS WIGLRNLDLK
GEFIWVDGSH VDYSNWAPGE PTSRSQGEDC VMMRGSGRWN DAFCDRKLGA WVCDRLATCT PPASEGSAES MGPDSRPDPD
GRLPTPSAPL HS
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Source

E. coli

Purity

96%

Biological Activity

Measured by its ability to induce TNF-alpha production by human PBMCs.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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