

sCD23, Human Recombinant

CATALOG #:	7124-10	10 µg
	7124-50	50 µg
ALTERNATE NAMES:	CD23 antigen, Fc-epsilon-RII, Lymphocyte IgE receptor, BLAST-2	
SOURCE:	E.coli	
PURITY:	≥ 96% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	19.2 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 0.5X PBS, pH 8.0.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. 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.

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.

BIOLOGICAL ACTIVITY:

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

AMINO ACID SEQUENCE:

MELQVSSGFV CNTCPEKWIN FQRKCYFYGK GTKQWVHARY ACDDMEGQLV
SIHSPEEQDF LTKHASHTGS WIGLRNLDLK GEFIVVDGSH VDYSNWAPGE
PTSRSQGEDC VMMRGSGRWN DAFCDRKLGA WVCDRLATCT PPASEGSAES
MGPDSPDPD GRLPTPSAPL HS

RELATED PRODUCTS:

- sCD14, Human Recombinant (**Cat. No. 7122-10, -50**)
- sCD22, Human Recombinant (**Cat. No. 7123-10, -50**)
- BLCAM Antibody (**Cat. No. 3363-100**)
- HCAM Antibody (**Cat. No. 3393-100**)
- CD-14, human recombinant (**Cat. No. 4937-100**)
- CD-14, mouse recombinant (**Cat. No. 4938-100**)
- CD-14 Antibody (Clone biG 10) (**Cat. No. 3676-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.