

TECHNICAL DATA SHEET

# Recombinant Human sCD23 (FceRII) (Carrier-free)

Catalog Number: 21-7141

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human sCD23 (FceRII) (Carrier-free)

**DESCRIPTION**

CD23, also known as Fc epsilon RII (FceRII), is a low affinity receptor for IgE and belongs to the C-type lectin superfamily. It is expressed on mature B cells, activated macrophages, eosinophils, follicular dendritic cells, and platelets. Soluble CD23 is generated through cysteine-protease or metalloprotease activity. A long (a) form is expressed constitutively on B cells, while a short (b) form is upregulated by IL-4 during allergic inflammation. Fragments of different sizes are generated and function may be related to fragment size, as well as form. CD23 plays a role IgE regulation, isotype switching, B cell homeostasis and stimulating monocytes to release pro-inflammatory cytokines.

**MOLECULAR MASS**

Recombinant Human sCD23 consists of 172 amino-acids. This results in a 19.2 kDa non-glycosylated protein.

**AMINO ACID SEQUENCE**

MELQVSSGFV CNTCPEKWIN FQRKCYFYGK GTKQVWHARY ACDDMEGQLV SIHSPEEQDF LTKHASHTGS WIGLRNLDLK GEFIVWDGSH VDYSNWAPGE PTSRSQGEDC VMMRGSGRWN DAFCDRLKGA WVCDRLATCT PPASEGSAES MGPDSRPDPD GRLPTPSAPL HS

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

96 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

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

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

**BIOACTIVITY**

The ability to induce TNF-alpha production in human PBMCs is measured.

**RESEARCH AREAS**

Inflammation, Immune System, Receptors

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

König W, Pfeil P, Hofmann U, Bujanowski-Weber J and Knöller I. 1988. Allergol Immunopathol (Madr). 16(4): 203-208. Yodoi J, Hosoda M, Maeda Y, Sato S, Takami M and Kawabe T. 1989. Ciba Found Symp. 147: 133-48. Prinz JC, Baur X, Mazur G and Rieber EP. 1990. Eur J Immunol. 20(6): 1259-1264. Alderson MR, Armitage RJ, Tough TW and Ziegler SF. 1994. Cytokine. 6(4): 407-413. Cooper AM, Hobson PS, Jutton MR, Kao MW, Drung B, Schmidt B, Fear DJ, Beavil AJ, McDonnell Jm, Sutton BJ and Gould HJ. 2012. J Immunol. 188(7): 3199-3207. Rezzonico R, Imbert V, Chicheportiche R and Dayer JM. 2001. Blood. 97(10): 2932-2940.

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