

Recombinant human CD23/FCER2 protein

Catalog Number: ATGP4162

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

48-321aa

UniProt No.

P06734

NCBI Accession No.

NP_001993.2

Alternative Names

Low affinity immunoglobulin epsilon Fc receptor, BLAST-2, C-type lectin domain family 4 member J, Fc-epsilon RII, Immunoglobulin E-binding factor, Lymphocyte IgE receptor, CD23, CD23A, CLEC4J, FCE2, IGEBF, FCER2

PRODUCT SPECIFICATION

Molecular Weight

32 kDa (283aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human IgE. The ED50 range \leq 15 ug/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human CD23/FCER2 protein

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Description

CD23/FCER2, also known as low affinity immunoglobulin epsilon Fc receptor isoform a, is a member of subgroup II of the C-type (Ca⁺⁺-dependent) lectin superfamily. It is a low affinity receptor for B cell specific antigen and IgE. Unlike many of the antibody receptors, CD23 is a C-type lectin. It is found on mature B cells, activated macrophages, eosinophils, follicular dendritic cells, and platelets. It plays an essential role in the growth and differentiation of B cells, and in the regulation of IgE production. This protein also exists in a soluble secretion form and functions as a powerful cleavage-promoting growth factor. Increased levels of soluble CD23/FCER2 lead to the recruitment of unaffected B cells in the presentation of antigen peptides to allergen-specific B cells. Recombinant human CD23/FCER2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

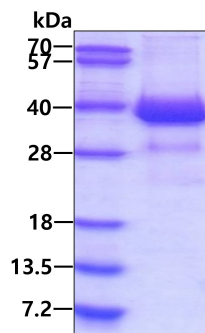
<ADP>DTTQSLK QLEERAARNV SQVSKNLESH HGDQMAQKSQ STQISQELEE LRAEQRLKS QDLELSWNLN
GLQADLSSFK SQELNERNEA SDLLERLREE VTKLRMELQV SSGFVCNTCP EKWINFQRKC YYFGKGTKQW VHARYACDDM
EGQLVSIHSP EEQDFLTkHA SHTGSWIGLR NLDLKGFEIW VDGSHVDYSN WAPGEPTSRS QGEDCVMMRG
SGRWNDAFCD RKLGAWVCDR LATCTPPASE GSAESMGPDs RPDPDGRlPT PSAPLHS<HHH HHH>

General References

Heyman, B., et al. (2000) Annu. Rev. Immunol. 18:709-737.
Bajorath, J., et al. (1996) Protein Sci. 5:240-247.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Human IgE is coated at 5 ug/ml (100 ul/well) can bind Human CD23/FCER2. The ED50 range \leq 15 ug/ml.

