# Recombinant human CD23/FCER2 protein

Catalog Number: ATGP3705

## 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)

**Tag**
His-Tag

**Application**
SDS-PAGE

**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

**Description**
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. It plays an essential role in the growth and differentiation of B cells, and in the regulation of IgE production. This

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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 FCER2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

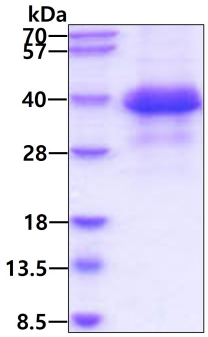
<ADP>DTTQSLK QLEERAARNV SQVSKNLESH HGDQMAQKSQ STQISQELEE LRAEQQRLKS QDLELSWNLN GLQADLSSFK SQELNERNEA SDLLERLREE VTKLRMELQV SSGFVCNTCP EKWINFQRKC YYFGKGTKQW VHARYACDDM EGQLVSIHSP EEQDFLTKHA SHTGSWIGLR NLDLKGEFIW VDGSHVDYSN WAPGEPTSRS QGEDCVMMRG SGRWNDAFCD RKLGAWVCDR LATCTPPASE GSAESMGPDS RPDPDGRLPT PSAPLHS<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.