

# Recombinant human IL-2R beta/IL2RB protein

Catalog Number: ATGP3822

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

27-240aa

### UniProt No.

P14784

### NCBI Accession No.

NP\_000869.1

### Alternative Names

Interleukin-2 receptor subunit beta, IL-2 receptor subunit beta, IL-2R subunit beta, IL-2RB, High affinity IL-2 receptor subunit beta, Interleukin-15 receptor subunit beta, p70-75, p75, CD122, IL15RB, Interleukin 15 receptor beta

## PRODUCT SPECIFICATION

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### Molecular Weight

25.5 kDa (220aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 95% 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

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### Description

IL2RB, also known as interleukin 2 receptor subunit beta, is a member of the cytokine receptor superfamily. This protein, which is involved in T cell-mediated immune responses, is present in three forms with respect to ability

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to bind interleukin 2. It denoted IL2RA, IL2RB, and the common cytokine receptor gamma chain, which is shared by the receptors for IL-2, IL-4, IL-7, IL-9, and IL-15. The low affinity form is a monomer of the alpha subunit (also called CD25) and is not involved in signal transduction. The intermediate affinity form consists of a gamma/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of the receptor are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. Recombinant human IL2RB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

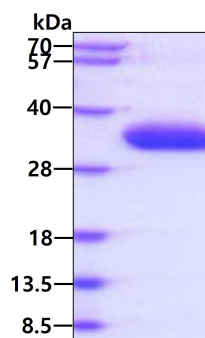
AVNGTSQFTC FYNSRANISC VWSQD GALQD TSCQVHAWPD RRRWNQTCEL LPVSQASWAC NLILGAPDSQ KLTTVDIVTL  
RVLCREGVRW RVMAIQDFKP FENLRLMAPI SLQVVHVETH RCNISWEISQ ASHYFERHLE FEARTLSPGH TWEEAPLLTL  
KQKQEWICLE TLTPDTQYEF QVRVKPLQGE FTTWSPWSQP LAFRTKPAAL GKDT<HHHHHH>

## General References

Jounaidi Y., et al, (2017) Cancer Res. 77:5938-5951.  
Purvis SF., et al, (1992) Cell. Immunol. 144:32-42.

## DATA

### SDS-PAGE



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