

Recombinant human IL-2R gamma/IL2RG protein

Catalog Number: ATGP3069

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-262aa

UniProt No.

P31785

NCBI Accession No.

NP_000197

Alternative Names

Interleukin 2 receptor subunit gamma, Cytokine receptor common subunit gamma, Severe combined immunodeficiency, Combined immunodeficiency X-linked, Interleukin 2 receptor gamma, IL-2 receptor subunit gamma, gammaC, p64, CD132

PRODUCT SPECIFICATION

Molecular Weight

29kDa (246aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

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

IL2RG, also known as Interleukin-2 receptor common subunit gamma, is a cytokine receptor sub-unit that is common to the receptor complexes for at least six different interleukin receptors. This protein is located on the

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surface of immature blood-forming cells in bone marrow. One end of the protein resides outside of the cell where it binds to cytokines and the other end of the protein resides in the interior of the cell where it transmits signals to the cell's nucleus. The common gamma chain partners with other proteins to direct blood-forming cells to form lymphocytes. It also directs the growth and maturation of lymphocyte subtypes. These cells kill viruses, make antibodies, and help regulate the entire immune system. Recombinant human IL2RG, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

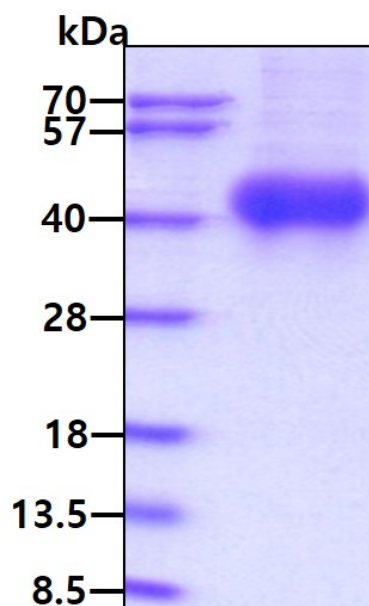
LNTTILTPNG NEDTTADFFL TTMPDLSLV STLPLPEVQC FVFNVEYMNC TWNSSSEPQP TNLTLHYWYK NSDNDKVQKC
SHYLFSEEIT SGCQLQKKEI HLYQTFVVQL QDPREPRRQA TQMLKLQNLV IPWAPENLTL HKLSESQLEL NWNRRFLNHC
LEHLVQYRTD WDHSWTEQSV DYRHKFSLPS VDGQKRYTFR VRSRFNPLCG SAQHWSEWSH PIHWGSNTSK ENPFLFALEA
<HHHHHH>

General References

Wang X. et al. (2005). Science. 310:1159-1163.
Russell SM. et al. (1993). Science. 262:1880-1883.

DATA

SDS-PAGE



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