

Recombinant human Ig lambda-5/IgLL1 protein

Catalog Number: ATGP1998

PRODUCT INFORMATION

Expression system

E.coli

Domain

38-213aa

UniProt No.

P15814

NCBI Accession No.

NP_064455

Alternative Names

Immunoglobulin lambda-like polypeptide 1, 14.1, AGM2, CD179b, IGL1, IGL5, IGLJ14.1, IGLL, IGO, IGVPB, VPREB2

PRODUCT SPECIFICATION

Molecular Weight

21.5 kDa (199aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

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

The preB cell receptor is found on the surface of proB and preB cells, where it is involved in transduction of signals for cellular proliferation, differentiation from the proB cell to the preB cell stage, allelic exclusion at the Ig heavy chain gene locus, and promotion of Ig light chain gene rearrangements. The preB cell receptor is composed of a membrane-bound Ig mu heavy chain in association with a heterodimeric surrogate light chain. IGLL1 is one of the surrogate light chain subunits and is a member of the immunoglobulin gene superfamily. This gene does not undergo rearrangement. Mutations in this gene can result in B cell deficiency and

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agammaglobulinemia, an autosomal recessive disease in which few or no gamma globulins or antibodies are made. Two transcript variants encoding different isoforms have been found for this gene. Recombinant human IGLL1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

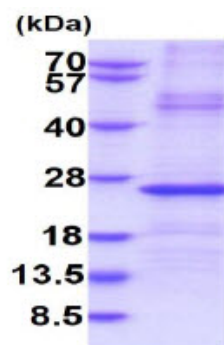
MGSSHHHHHHH SSGLVPRGSH MGSLLRPTAA SQSRALGPGA PGGSSRSSLR SRWGRFLLQR GSWTGPRCWP
RGFQSKHNSV THVFGSGTQL TVLSQPKATP SVTLFPPSSE ELQANKATLV CLMNDFYPIGI LTVTWKADGT PITQGVEMTT
PSKQSNNKYA ASSYLSLTPE QWRSRRSYSC QVMHEGSTVE KTVAPAEC

General References

Minegishi Y., et al. (1998) J. Exp. Med. 187:71-77
Bankovich A.J., et al. (2007) Science. 316:291-294

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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