

Recombinant mouse Kell protein

Catalog Number: ATGP3955

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

49-713aa

UniProt No.

Q9EQF2

NCBI Accession No.

NP_115929

Alternative Names

kell blood group antigen, kell blood group glycoprotein, Kell blood group, Kell blood group glycoprotein homolog, KEL, Kell, CD238 antigen, CD238, ECE3, Kell blood group-metalloendopeptidase, Kell blood group-metalloendopeptidase

PRODUCT SPECIFICATION

Molecular Weight

76.3kDa (674aa)

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

Kell, also known as Kell blood group glycoprotein homolog, is a member of the zinc endopeptidase of the neprilysin (NEP) family. It is an enzyme whose principal known function is the production of a potent bioactive

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peptide, ET-3. It also includes endothelin converting enzymes (ECE-1 and ECE-2), PEX, XCE, DINE and several NEP-like proteins. It is linked through a single disulfide bond to XK, a putative membrane transporter. The two proteins constitute the Kell blood group antigens. The Kell antigen system (also known as Kell-Cellano system) is one of the most clinically important blood group systems. Recombinant mouse Kell, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

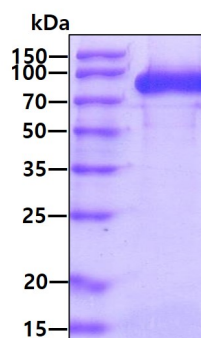
<ADP>IFRNCGP CPCETPVCME LLDHYLASGN RSVAPCTDFF SFACEKANGT SDSFQALTEE NKSRLWRLLLE
 APGSWHLGSG EEKAFQFYNS CMDTDAIEAS GSGPLIQIE ELGGWNITGN WTSLDFNQNL RLLMSQYGHF PFFRAYLRPH
 PAPPHTPIIQ IDQPEFDILL QQEQEQKVYA QILREYVTYL NRLGTLLGSN PQEAQQHASW SIVFTSRLFQ FLRPQQQQQA
 QDKLFHVVTI DELQEMAPAI DWLSCLQAIF TPMSLNSSQT LVVHDLDYLR NMSQLVEEGL LNHRESIQSY MILGLVDTLS
 PALDTKFQEA RRELIQELRK LKERPPLPAY PRWMKCVEQT GAFFEPTLAA LRVREAFGPS IQSAAMELFA EIKDAVIIRL
 KKLSWISEET QKEALNKLAQ LQVEMGAPKR AVKPDIATQE YNDIQLGPSF LQSFLSCVRS LRARNVQSFL QPFYHRWQK
 SPWEVNAYYS ISDHMVVFPFA GLLQPPFFHP GYPRAVNFQA AGSIMAHELL HIFYQLLLPG GCPACDTHVL QEALLCLERH
 YAAFPLPSIS SFNGSHTLLE NAADIGGVAI AFQAYSKRIV EHTGELTLPN LDLSPYQLFF RSYAQVMCRG LSSQDPQDPH
 SPPSLRVHGP LSNTPDFAKH FHCPRGTLN PSARCKLW<HH HHHH>

General References

- Lee, S. et al. (1999) Blood 94:1440-1450.
- Lee, S. et al. (2000) Transfus. Med. Rev. 14:93-103.
- Turner, A.J. et al. (2001) BioEssays. 23:261-269.

DATA

SDS-PAGE



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