

Active Recombinant Mouse Kell Blood Group, His-tagged

Cat. No. Kel-1976M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Kell protein was expressed in Murine myeloma cell line. Phe50-Trp713, with an N-terminal 7-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	50-713 a.a.
Description	Kell is linked through a single disulfide bond to XK, a putative membrane transporter. The two proteins constitute the Kell blood group antigens. Kell is a zinc endopeptidase of the neprilysin (NEP) family which also includes endothelin converting enzymes (ECE-1 and ECE-2), PEX, XCE, DINE and several NEP-like proteins. It has been shown to cleave big endothelin-3 (ET-3) at Trp21-Ile22, yielding ET-3, and to a much lesser extent, big ET-1 and big ET-2 at Trp21-Val22, yielding ET-1 and ET-2. Several different molecular defects cause the Kell null phenotype, which has no obvious clinical outcome.
Form	Supplied as a 0.2 umfiltered solution in Tris, NaCl and ZnCl ₂ .
N-terminal Sequence	His
Molecular Weight	76 kDa
Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK

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(Dnp)-OH. The specific activity is > 0.2 pmoles/min/μg, as measured under the described conditions.

Endotoxin Level <1.0EU per 1μg of the protein by the LAL method.

SDS-PAGE 106 kDa, reducing conditions.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name Kel Kell blood group [*Mus musculus*]

Official Symbol Kel

Synonyms Kel; Kell blood group; Ece3; CD238; kell blood group glycoprotein homolog; Kell protein; Kel blood group protein; Kell blood group, metallo-endopeptidase

Gene ID 23925

mRNA Refseq NM_032540

Protein Refseq NP_115929

UniProt ID Q9EQF2

Chromosome 6

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Location**Function**

endopeptidase activity;hydrolase activity; metal ion binding; metalloendopeptidase activity;metallopeptidase activity; peptidase activity

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