

Full-Length

KDEL3 (Human) Recombinant Protein (P01)

Catalog # H00011015-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KDEL3 full-length ORF (AAH01277, 1 a.a. - 214 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNVFRILGDLSHLLAMILLGKIWRSKCKGISGKSQILFALVFTRYLDLFTNFISYNTVMKVVFLLC
AYVTYMIYGKFRKTFDSENDTFRLEFLLVPVIGLSFLENYSFTLLEILWTFSMYLESVAILPQLFMISK
TGEAETITTHYLFFLGLYRALYLANWIRRYQTENFYDQIAVVSQVQTFYCDFFLYVTKVLKGGKLS
LPMPI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

49.28

Interspecies Antigen Sequence

Mouse (92); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KDELR3

Entrez GeneID [11015](#)**GeneBank Accession#** [BC001277](#)**Protein Accession#** [AAH01277](#)**Gene Name** KDELR3**Gene Alias** ERD2L3**Gene Description** KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3**Gene Ontology** [Hyperlink](#)

Gene Summary

Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asg-glu-leu (KDEL) in animal cells, and his-asg-glu-leu (HDEL) in *S. cerevisiae*. This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDELR3 was the third member of the family to be identified, and it encodes a protein highly homologous to KDELR1 and KDELR2 proteins. Two transcript variants of KDELR3 that arise by alternative splicing, and encode different isoforms of KDELR3 receptor, have been described. [provided by RefSeq]

Other Designations KDEL receptor 3|OTTHUMP00000028924

Pathway

- [Vibrio cholerae infection](#)