

Recombinant Full Length Human KDELR1 Protein, C-Flag-tagged

Cat. No. KDELR1-1731HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human KDELR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

Description

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-asp-glu-leu (KDEL) in animal cells, and his-asp-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, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product.

Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass

24.4 kDa

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AA Sequence	MNLF RFLGDL SHLLAI LLLLKIWKSRSCAGISGKSQVLF AVVFTARYLDLFTNYISLYN TCMKVVYIAC SFTTVWLIYSKFKATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEIL WTF SIYLESVAILPQLFMVSK TGEAETITSHYLFALGVYRTLYLFNWIWRYHFEGFFD LIAIVAGLVQTVLYC DFFLYITKVLKGGKLSL PATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Vibrio cholerae infection
Full Length	Full L.

GENE INFORMATION

Gene Name	KDEL R1 KDEL endoplasmic reticulum protein retention receptor 1 [Homo sapiens (human)]
Official Symbol	KDEL R1

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Synonyms	ERD2; HDEL; PM23; ERD2.1
Gene ID	10945
mRNA Refseq	NM_006801.3
Protein Refseq	NP_006792.1
MIM	131235
UniProt ID	P24390



Coomassie blue staining of purified KDELR1 protein.

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