

Human EDEM2 / C20orf31 Protein (His Tag)

Catalog Number: 15687-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

bA4204.1; C20orf31; C20orf49; 9530090G24Rik; AI327354

Protein Construction:

A DNA sequence encoding the human EDEM2 (AAH01371.1) (Met1-Lys492) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 22

Molecular Mass:

The recombinant human EDEM2 consists of 482 amino acids and predicts a molecular mass of 54 KDa. It migrates as an approximately 53-58 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

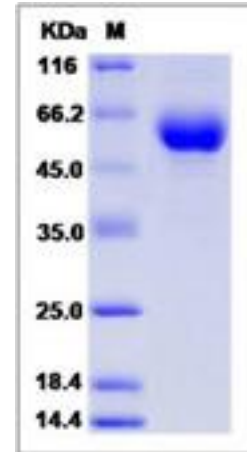
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

EDEM2, also known as C20orf31, belongs to a family of proteins involved in ER-associated degradation (ERAD) of glycoproteins. In the endoplasmic reticulum (ER), misfolded proteins are retrotranslocated to the cytosol and degraded by the proteasome. Early in this pathway, a proposed luminal ER lectin, EDEM, recognizes misfolded glycoproteins in the ER, disengages the nascent molecules from the folding pathway, and facilitates their targeting for disposal. In humans there are a total of three EDEM homologs. The amino acid sequences of these proteins are different from other lectins but are closely related to the Class I mannosidases (family 47 glycosidases). EDEM2 is one of the EDEM homologs. Overexpression of EDEM2 accelerates the degradation of misfolded alpha1-antitrypsin, indicating that the protein is involved in ERAD.

References

1. Mast SW. et al., 2005, Glycobiology. 15 (4): 421-36.
2. Olivari S. et al., 2005, J Biol Chem. 280 (4): 2424-8.
3. Ota T. et al., 2004, Nat Genet. 36 (1): 40-5.

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