

Recombinant Human EDEM2/C20orf31 Protein (His Tag)



Catalog Number: PKSH030522

Note: Centrifuge before opening to ensure complete recovery of vial contents.

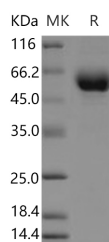
Description

Synonyms	bA4204.1;C20orf31;C20orf49;UNQ573/PRO1135
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Lys492
Accession	AAH01371.1
Calculated Molecular Weight	54.0 kDa
Observed molecular weight	53-58 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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.

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