Recombinant Human EDEM2/C20orf31 Protein (His Tag)

Catalog No. 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	
Bioactivity	Not validated for activity	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g 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

KDa	MK	R
116	-	
66.2	-	-
45.0		
35.0	-	
25.0	-	
18.4	_	
14.4	-	

> 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

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the proteasome. Early in this pathway, a proposed lumenal 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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