

## MFGE8 Protein, Mouse, Recombinant (His)

## General Information

Synonyms:	MFG-E8;Lactadherin;SPAG10;BA46;MFG1;SED1;EDIL1;MP47;MFGM;HsT19888;OAcGD3S;Medin
Protein Construction:	Ala23-Cys463
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P21956-1
Molecular Weight:	50.1 kDa (predicted). Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

MFGE8 (Milk Fat Globule EGF And Factor V/VIII Domain Containing) is a Protein Coding gene. Diseases associated with MFGE8 include Anal Paget's Disease and Topographical Agnosia. Among its related pathways are Activated PKN1 stimulates transcription of AR (androgen receptor) regulated genes KLK2 and KLK3 and Extracellular vesicle-mediated signaling in recipient cells. This protein plays an important role in the maintenance of intestinal

epithelial homeostasis and the promotion of mucosal healing.

Reference

Del Campo M, Galimberti D, Elias N, Boonkamp L, Pijnenburg YA, van Swieten JC, Watts K, Paciotti S, Beccari T, Hu W, Teunissen CE. Novel CSF biomarkers to discriminate FTLD and its pathological subtypes. *Ann Clin Transl Neurol*. 2018 Sep 7;5(10):1163-1175. doi: 10.1002/acn3.629. PMID: 30349851; PMCID: PMC6186934.

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