

# Human MMGT1 / EMC5 Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 13998-H07H

## General Information

### Gene Name Synonym:

EMC5; TMEM32

### Protein Construction:

A DNA sequence encoding the human MMGT1 (NP\_775741.1) (Glu66-Arg131) was expressed with an N-terminal polyhistidine tag.

**Source:** Human

**Expression Host:** HEK293 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:** His

### Molecular Mass:

The recombinant human MMGT1 comprises 86 amino acids and has a predicted molecular mass of 10.1 kDa. The apparent molecular mass of the protein is approximately 23-29 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### 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:

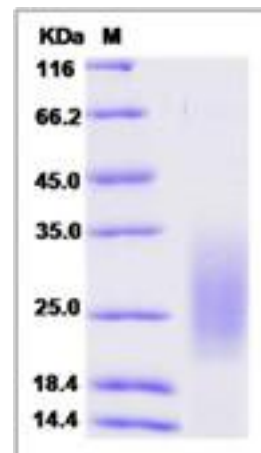
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

MMGT1, also known as EMC5, is comparable with primary microglial cells with respect to morphology, presence of acetylated low density lipoprotein receptor, non-specific esterase, CD63, major histocompatibility complex antigens and CD11, and binding for Ricinus communis agglutinin. Primary microglia as well as MMGT1 cells are negative for glial fibrillary acidic protein. Different MMGT1 strains are obtained after subcloning, two of which resembled histiocytes (F4/80 and BM-8). These cell strains, MMGT12 and 16, are able to opsonize latex beads, and could be induced by endotoxins (LPS) to secrete TNF-alpha, IL-1, IL-6, TGF-beta, and EGF.

## References

1. Goytain A. et al., 2008, Am J Physiol Cell Physiol. 294 (2): C495-502.
2. Briers TW. et al., 1994, J Neuroimmunol. 52 (2): 153-64.
3. J?ger S. et al., 2011, Nature. 481 (7381): 365-70.

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