

For Research Use Only

# Recombinant Human EMMPRIN/CD147 protein (His Tag)



Catalog Number: Eg0436

## Basic Information

**ED50:**  
/

**GeneID:**  
682

**Species:**  
Human

**Accession:**  
P35613-1

**Purity:**  
>95 %, SDS-PAGE

## Technical Specifications

**Purity:**  
>95 %, SDS-PAGE

**Endotoxin Level:**  
<1.0 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human EMMPRIN protein Glu138-Ala323 (Accession# P35613-1) with a His tag at the C-terminus.

**Predicted Molecular Mass:**  
24.5 kDa

**SDS-PAGE:**  
32-45 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD147, also known as Basigin or extracellular matrix metalloproteinase inducer (EMMPRIN), is a transmembrane glycoprotein that belongs to the immunoglobulin superfamily. The molecule is composed of an intracellular portion, an extracellular portion, and a single transmembrane region. CD147 is expressed on a variety of cell types (e.g., hematopoietic, epithelial, and endothelial cells) and at varying levels. Increased expression of CD147 occurs in many tumors. CD147 is a pleiotropic molecule that plays an important role in fetal, neuronal, lymphocyte and extracellular matrix development. CD147 has been identified as a receptor essential for erythrocyte invasion by Plasmodium falciparum (PMID: 22080952). It has been reported that spike protein of SARS-CoV-2 binds to CD147 on host cells, thereby mediating the viral invasion.

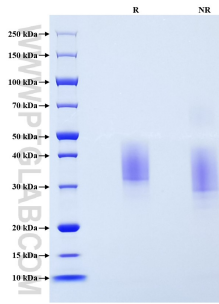
## References

1. C Biswas, et al. (1995) Cancer Res. 55(2):434-9.
2. Kathryn T Iacono, et al. (2007) Exp Mol Pathol. 83(3):283-95.
3. Hsiang-Chi Tseng, et al. (2020) Nat Commun. 11(1):4810.
4. Ke Wang, et al. (2020) Signal Transduct Target Ther. 5(1):283.

## Synonyms

CD147,5F7,Basigin,BSG,Collagenase stimulatory fact

## Selected Validation Data



Purity of Recombinant Human EMMPRIN was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.