

Recombinant Human CD147 protein (His Tag)

Catalog Number: Eg0436

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human CD147 protein Glu138-Ala323 (Accession# P35613-1) with a His tag at the C-terminus.

GeneID:

682

Accession:

P35613-1

Predicted Molecular Mass:

24.5 kDa

SDS-PAGE:

32-45 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in 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.

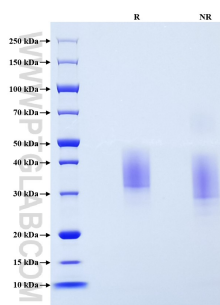
References

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 factor

Selected Validation Data



Purity of Recombinant Human CD147 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

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