

For Research Use Only

Recombinant Mouse VISTA protein (mFc Tag)(HPLC verified)



Catalog Number: Eg4197

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/ µ g protein, LAL method

Source:
HEK293-derived Human VISTA protein Phe33-Ala191 (Accession# Q9D659) with a mouse IgG Fc tag at the C-terminus.

GeneID:
74048

Accession:
Q9D659

Predicted Molecular Mass:
44.4 kDa

SDS-PAGE:
50-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 µ m 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

VISTA, also known as PD-1H, Dies1, and Gi24, is encoded by the Vsir gene in mice. VISTA is a type I transmembrane protein that acts as an immune-regulatory checkpoint on hematopoietic cells and shares homology with both the B7 family ligand PD-L1 and the CD28 family receptor PD-1. In mice, VISTA is expressed predominantly in hematopoietic tissues, such as the spleen, thymus, lymph node, and bone marrow (BM). VISTA plays a key role in regulating immune system responses and maintaining homeostasis.

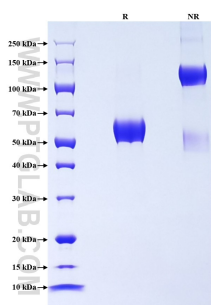
References

- 1.Yuan L, et al. (2021) Trends Immunol. 42(3):209-227.
- 2.Tagliamento M, et al. (2021) Immunotargets Ther. 10:185-200.
- 3.Martin AS, et al. (2023) Front Immunol. 14:1086102.
- 4.Shekari N, et al. (2023) Cancer Cell Int. 23(1):265.
- 5.Zhang RJ, et al. (2024) Exp Mol Med. 56(11):2348-2356.

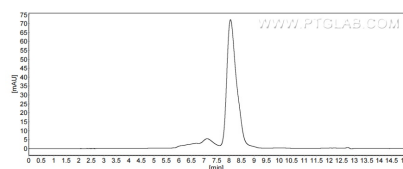
Synonyms

Dies1, PD-1H, Platelet receptor Gi24, V-set domain-containing immunoregulatory receptor, V-set immunoregulatory receptor

Selected Validation Data



Purity of Recombinant Mouse VISTA 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.



The purity of Mouse VISTA was greater than 90% as determined by SEC-HPLC.