

For Research Use Only

Recombinant Human B7-H4 protein (Myc Tag, His Tag)



Catalog Number: Eg0098

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human B7-H4 protein Phe29-Ala258 (Accession# Q7Z7D3-1) with a Myc tag, His tag at the C-terminus.

GeneID:
79679

Accession:
Q7Z7D3-1

Predicted Molecular Mass:
30.3 kDa

SDS-PAGE:
40-70 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

B7 H4, also named VTCN1, B7X, or B7S1, is a 282 amino acid protein, which contains 2 immunoglobulin-like domains and belongs to the immunoglobulin superfamily. B7 H4 negatively regulates T-cell mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. B7 H4 is a single-pass type I membrane protein, which is over-expressed in breast, ovarian, endometrial, renal cell and non-small-cell lung cancers. B7-H4 is up-regulated on the surface of cancer cells and immunosuppressive tumor-associated macrophages (TAMs) in a variety of human cancers.

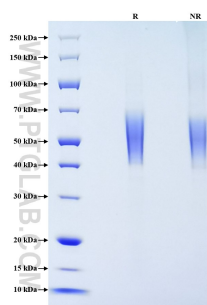
References

1. Wang JY, et al. (2020). Cell Immunol. 347:104008.
2. Yu J, et al. (2024). Cell. 187 (17): 4713-4732.e19.
3. Smith JB, et al. (2014). Gynecol Oncol. 34(1):181-189.
4. Tringler B, et al. (2006). Gynecol Oncol. 100(1):44-52.
5. Dahan A, et al. (2012). Ann Rheum Dis. 71(4): 567-571.

Synonyms

VTCN1, B7 H4, B7 homolog 4, B7h.5, B7H4

Selected Validation Data



Purity of Recombinant Human B7-H4 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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