

# Biotinylated Human B7-H3/CD276 Protein

Cat. No. BH7-HM473B

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Biotinylated Human B7-H3/CD276 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>It contains Leu29-Pro245. |
| <b>Accession</b>        | Q5ZPR3-2   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 26.49 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.                  |
| <b>Endotoxin</b>        | Less than 1 EU per $\mu\text{g}$ by the LAL method.  |
| <b>Purity</b>           | >95% as determined by Bis-Tris PAGE<br>>95% as determined by HPLC  |

## Formulation and Storage

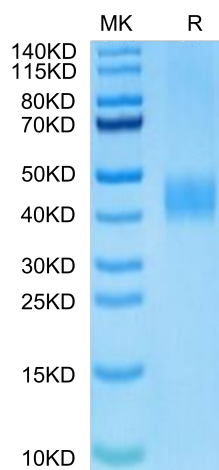
|                    |   |
|--------------------|---|
| <b>Formulation</b> | Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).   |
| <b>Storage</b>     | Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

B7-H3, a member of the B7 family of immunomodulatory molecules, is overexpressed in a wide range of solid cancers. B7-H3 binds to activated T cells via an as yet unidentified receptor. In assays using sub-optimal amount so anti-CD3 stimulation, 2IgB7H3 enhances T cell proliferation, T cell interferon-gamma (IFN-gamma) production, and cytotoxic T cells induction.

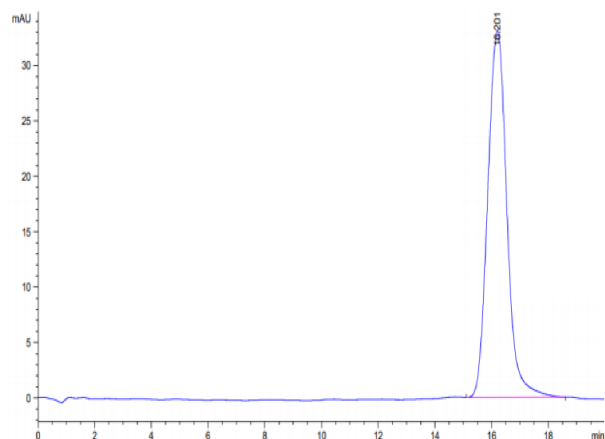
## Assay Data

### Bis-Tris PAGE



Biotinylated Human B7-H3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Biotinylated Human B7-H3 is greater than 95% as determined by SEC-HPLC.

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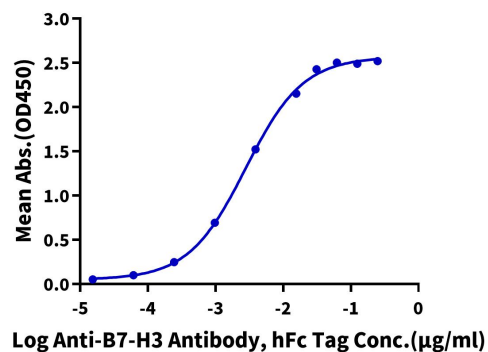
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## Assay Data

### ELISA Data

#### Biotinylated Human B7-H3, His Tag ELISA

0.05µg Biotinylated Human B7-H3, His Tag Per Well



Immobilized Biotinylated Human B7-H3, His Tag at 0.5 µg/ml (100 µl/well) on the streptavidin precoated plate (5 µg/ml). Dose response curve for Anti-B7-H3 Antibody, hFc Tag with the EC50 of 2.8 ng/ml determined by ELISA.