


Rev04  
 Update: Aug,08,2025

**DATASHEET**

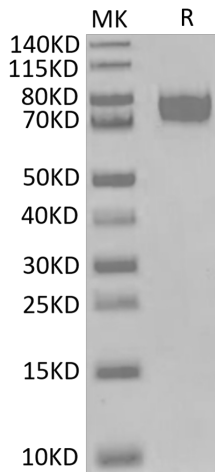
# B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human

Cat. No.: Z03890

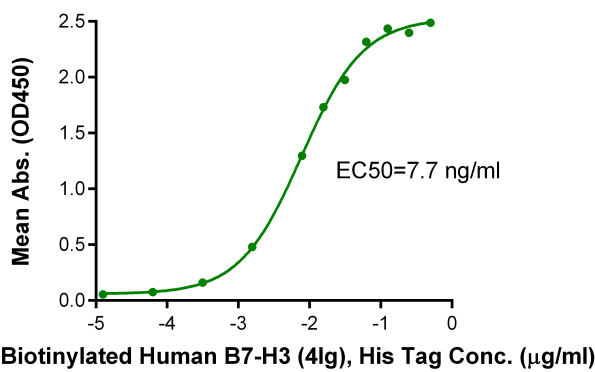
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	 <p>B7-H3 (4Ig) /B7-H3b (Gly27-Thr461)        Accession # Q5ZPR3-1</p> <p>N-term <span style="margin-left: 150px;">His</span> <span style="margin-left: 20px;">Avi</span> C-term</p>
<b>Conjugate</b>	Biotin
<b>Purity</b>	<p>&gt; 95% as determined by Bis-Tris PAGE</p> <p>&gt; 95% as determined by HPLC</p>
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Immobilized Anti-B7-H3 Antibody, hFc Tag at 2 µg/ml (100µl/Well) on the plate can bind B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human (Cat.No.: Z03890)
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	49.5 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O more than 100 µg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

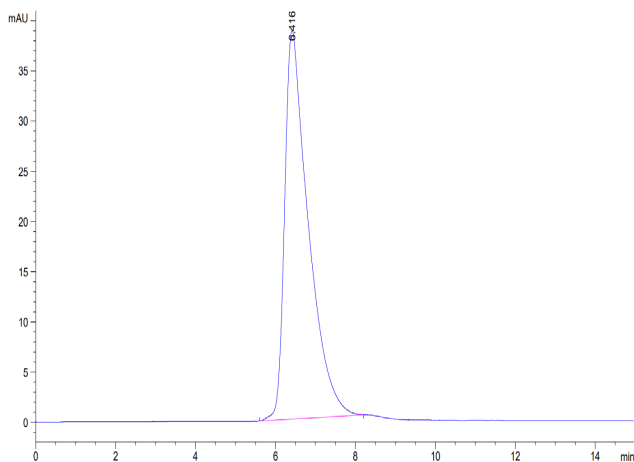
## Examples



B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized Anti-B7-H3 Antibody, hFc Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human with the EC50 of 7.7 ng/ml determined by ELISA.



The purity of B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

## Background

**Target 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, 2Ig-B7-H3 enhances T cell proliferation, T cell interferon-gamma (IFN-gamma) production, and cytotoxic T cells induction.

**Synonyms :** B7-H3; CD276; PSEC0249; 4Ig-B7-H3; UNQ309; PRO352; B7 homolog 3; CD276

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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