B7-1 (CD80), Fc fusion, Avi-Tag, Biotin-labeled

Human, Recombinant, Fc fusion protein, C-terminal Avi-Tag, Biotin labeled.

**Catalog #:** 71114  
**Lot #:** 160602  
**Conc.:** 0.69 mg/ml

**Formulated in:** 8 mM Phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

**Stability:** At least 6 months at –80°C. Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at -80°C.

**References:**  

**Description:** Human secreted B7-1-Fc fusion protein, also known as CD80, with C-terminal Avi-Tag. GenBank Accession No. NM_005191, a.a 35-242 expressed in a HEK293 cell expression system and enzymatically biotin-labeled using Avi-tag™ technology. MW = 53 kDa (monomer). This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.

**Assay Description:** Reaction done according to CTLA4:B7-1[biotin] assay kit (Catalog # 72009) protocol. Buffer is PBS + 0.1% BSA. Blocking buffer is Superblock + 0.05% Tween-20. Coat protein was added ON at 4 deg 100 ng/well. Various concentrations of biotinylated ligand (0-8ng/ul, 0.5 ng/ul is the recommended kit condition) added for 2h at RT. Strep-HRP added for 1h at RT.

**Application:** Useful for the study of protein-protein interaction and in vitro and in vivo protein function studies.

**Quality Assurance**

4-20% SDS-PAGE  
Coomassie staining

**Lane 1:** 3µg B7-1  
**Lane 2:** Protein Marker

MW: 53 kDa + glycans  
Purity: ≥90%

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Gel Filtration Curve

<table>
<thead>
<tr>
<th>Molecular Weight (kDa)</th>
<th>Peak Height</th>
</tr>
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<tbody>
<tr>
<td>1350</td>
<td></td>
</tr>
<tr>
<td>17</td>
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<tr>
<td>44</td>
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<tr>
<td>670</td>
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<tr>
<td>15.3</td>
<td></td>
</tr>
<tr>
<td>B7-1 Biotin</td>
<td></td>
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</tbody>
</table>

<10% Aggregation