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Data Sheet

CTLA4 (CD152), Fc-tag

Human, Recombinant, Fc fusion protein
Catalog #: 71149-2
Lot #: 180404-G **Conc.:** 0.44 mg/ml

Formulated in: 8 mM phosphate, pH 8.0, 110 mM NaCl, 2.2mM 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.*

Endotoxin Level: <0.1 EU/µg

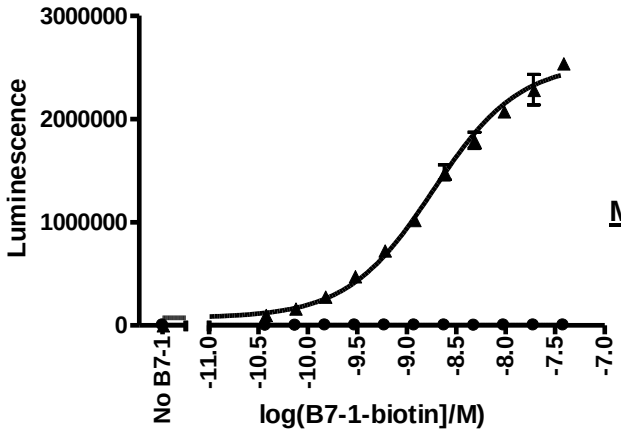
References:

1. Dilek, N., *et al.,PLOS ONE.* 2013 Dec. 23: DOI: 10.1317.
2. Leach, D.R., *et al., Science.* 1996; **271(5256)**:1734-1736.

Description: Human secreted CTLA4 , Fc fusion protein, also known as Cytotoxic T-lymphocyte-associated protein 4 and CD152. GenBank Accession No. NM_005214, a.a. 36-162 expressed in a HEK293 cell expression system. MW = 40.3 kDa (monomer). This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Assay Conditions: 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 (0-5 ng/ul, 1.25 ng/ul is the recommended kit condition) added for 2h at RT. Strep-HRP added for 1h at RT.
Application: Useful for studying protein binding and screening small molecules.

Quality Assurance

CTLA4: B7-1 [B] Interaction

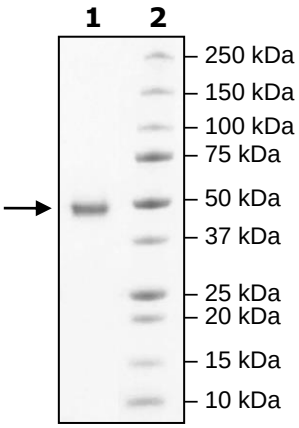


4-20% SDS-PAGE Coomassie staining

Lane 1: 2ug CTLA4
Lane 2: Protein Marker

MW: 40 kDa+glycans

Purity: ≥90%



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Sequence

KAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMM
GNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIY
VIDPEPCPDSDFIEGRMDPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTP
EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWL
NGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHE
ALHNHYTQKSLSLSPGK

Black: CTLA4 (a.a. 36-162)
Green: linker
Red: Fc of human IgG1 (a.a. 100-330)

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