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## Product Datasheet

### Recombinant Human PD-1 (C-Fc) EBT-EPT106

Artikelname	Recombinant Human PD-1 (C-Fc)
Artikelnummer	EBT-EPT106
Hersteller Artikelnummer	EPT106
Alternativnummer	EBT-EPT106-50
Hersteller	ELK Biotechnology
Kategorie	Proteine/Peptide
Produktbeschreibung	Recombinant Human Programmed Cell Death Protein 1 is produced by our Mammalian expression system and the target gene encoding Pro21-Gln167 is expressed with a Fc tag at the C-terminus....
Molekulargewicht	Molecular weight: 43.6 KDa. Apparent molecular weight: 60-70 KDa, reducing conditions
UniProt	<a href="#">Q15116</a>
Reinheit	Greater than 95% as determined by reducing SDS-PAGE.

Anwendungsbeschreibung	<p>Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Biological activity: Immobilized Human PD-1-Fc (CatCM81) at 2µg/ml (100 µl/well) can bind Anti-Human PD-1 mAb(CatGMP-A085). The ED50 of Human Anti-Human PD-1 mAb(CatGMP-A085) is 48.76 ng/ml. Background: Programmed cell death protein 1(PDCD1) is a single-pass type I membrane protein and contains 1 Ig-like V-type domain. PD-1 is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-gamma by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PDCD1 inhibits BCR-mediated signal by dephosphorylating key signal transducer. PDCD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function</p>
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