

Recombinant Human PD---1 (C---Fc)

Catalog No: C754

Description	Recombinant Human Programmed cell death protein 1/PD---1 is produced with our Mammalian expression system. The target protein is expressed with sequence (Leu25---Gln167) of Human PD---1 fused with a mFc tag at the C---terminus.
Source	E.coli
Alternative name	Programmed cell death protein 1,hPD---1,PD1,CD279
Accession No.	Q15116
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Control	<p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.</p>
Shipping	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
Storage	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Amino Acid Sequence	<p>LDSPDRPWNPTTFSPALLVVTGEDNATFTCSFSNTSESVFLNWYRMSPSNQTDKLAAPEDRSQPGQDCR</p> <p>FRVTQLPNGRDF</p> <p>HMSVVRARRNDSTYLCGAISLAPKAQIKESLRAELRVTERRAEVPTAHPSPSPRPAGQFQPRDCGCKPCI</p> <p>CTVPEVSSVFIFPP</p> <p>KPKDVLITLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTQPREEQFNSTFRSVSELPIMHQDWLNGK</p> <p>EFKCRVNSAA</p> <p>FPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITDFFPEDITVEWQWNGQPAENYKNTQPIMDT</p> <p>DGSYFVYSKL NVQKSNWEAGNTFTCSVLHEGLHNHHTKSLSHSPGK</p>
Background	<p>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---γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PDCD1 inhibits BCR---mediating 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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