
Product Data Sheet

Product Name: PD-1 Protein, Mouse (HEK293, His-Fc)

Cat. No.: GC26686

Batch No.: 1

Product Data

Purity >98% Source HEK293

Physical Appearance solid Shipping Condition

Synonyms Programmed cell death protein 1; PD1; CD279; PDCD1

Amino Acid Sequence LEVPNGPWRS LTFYPAWLTV SEGANATFTC SLSNWEEDLM LNWNRLSPSN QTEKQAAFCN GLSQPVQDAR FQIIQLPNRH DFHMNILDTR RNDSGIYLCG AISLHPKAKI EESPGAELVV TERILETSTR YPSPSPKPEG RFQ

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 (Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.) or 20 mM PB, 150 mM NaCl, pH 7.4.

Introduction

PD-1 (programmed cell death 1) protein negatively regulates immune responses and affects processes such as apoptosis and tolerance induction. It is a transmembrane protein found on the outside of the plasma membrane and expressed in the retina. PD-1 Protein, Mouse (HEK293, His-Fc) is the recombinant mouse-derived PD-1 protein, expressed by HEK293, with C-hFc, C-8*His labeled tag.

Biological Activity

1. Determined by its ability to prevent plate adhesion of PHA-stimulated Jurkat cells in the presence of 625 ng/mL of bound hPD-L1. The ED₅₀ for this effect is 0.4262 µg/mL, corresponding to a specific activity is 2.35×10^3 units/mg. 2. Immobilized Recombinant Mouse PD-1 at 1 µg/ml (100 µl/well) can bind Recombinant Mouse PD-L1. The ED₅₀ for this effect is 0.5001 µg/mL. Determined by its ability to prevent plate adhesion of PHA-stimulated Jurkat cells in the presence of 625ng/mL of bound hPD-L1. The ED₅₀ for this effect is 0.4262 µg/mL, corresponding to a specific activity is 2.35×10^3 units/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Background

PD-1 (programmed cell death 1) protein negatively regulates immune responses and affects processes such as apoptosis and tolerance induction. It is a transmembrane protein found on the outside of the plasma membrane and expressed in the retina. PD-1 Protein, Mouse (HEK293, His-Fc) is the recombinant mouse-derived PD-1 protein, expressed by HEK293, with C-hFc, C-8*His labeled tag.

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