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Elabscience Biotechnology Inc.

Elabscience®

Recombinant Cynomolgus B7-1/CD80 Protein (Fc Tag)

Catalog No. PKSQ050018

Description

Synonyms	T-lymphocyte activation antigen CD80; Activation B7-1 antigen; B7; CD80
Species	Cynomolgus
Expression_host	Human Cells
Sequence	Val35-Asn242
Accession	G7NXN7
Mol_Mass	51 kDa
AP_Mol_Mass	70-90 kDa
Tag	C-Fc

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM Glycine, pH 7.5.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Cynomologous Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily.It is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells.CD80 plays key, yet distinct roles in the activation of T cells. B7-1/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

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SDS-PAGE