Technical Data Sheet

Purified NA/LE Non-Cytolytic Mouse CTLA-4 - IgG Fusion Protein

Product Information

<table>
<thead>
<tr>
<th>Material Number:</th>
<th>552133</th>
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</thead>
<tbody>
<tr>
<td>Size:</td>
<td>0.5 mg</td>
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<tr>
<td>Concentration:</td>
<td>0.5 mg/ml</td>
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<tr>
<td>Storage Buffer:</td>
<td>No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm filtered. Endotoxin level is ≤0.01 ng/µg of protein.</td>
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</tbody>
</table>

Description

The Non-Cytolytic Mouse CTLA-4 - IgG Fusion Protein is composed of the extracellular domain of mouse CTLA-4 (CD152) fused to a mutant Fc region of mouse IgG2a, which is unable to bind to the C1q complement or to Fc receptors. This chimeric protein binds to CTLA-4's ligands B7-1 (CD80) and B7-2 (CD86) on mouse antigen-presenting cells and blocks their binding to both CTLA-4 and CD28. CTLA-4 (also known as CD152) is a cell-surface Ig-superfamily glycoprotein closely related to the CD28 costimulatory receptor. CTLA-4 is expressed on activated T lymphocytes 2-3 days after stimulation through the T-cell receptor. Whereas CD28 delivers a costimulatory signal required for T-cell activation, CTLA-4 is a negative regulator of cell-mediated immune responses. CTLA-4 IgG Fusion Protein has been shown to prevent allograft rejection and induce donor-specific tolerance, inhibit in vitro responses of splenocytes to ConA; inhibit the spontaneous in vitro and in vivo lymphoproliferation in CTLA-4-deficient mice; and limit superantigen-induced T-cell proliferation, anergy, and secretion of IL-2, IFN-γ, and IL-4, but not TNF-α or IL-10.

Preparation and Storage

This preparation contains no preservatives, thus it should be handled under aseptic conditions. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Avoid multiple freeze-thaws of product. The fusion protein solution should be stored at -20°C until the vial is opened. Thawed aliquots may be stored for at least 1 week at 4°C.

Application Notes

Application

| Blocking | Routinely Tested |

Recommended Assay Procedure:

This fusion protein has been tested by LAL assay for endotoxin level, by SDS-PAGE to assure purity, and by an in vitro T-cell proliferation assay to assure blocking activity.

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.

References


