

Recombinant Human CD99

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. PRO-294
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➤ **Background:**

CD99 is an integral membrane protein of 185 amino acids that is expressed highly on cells of the hematopoietic system and on Ewing tumor cells. CD99 has been implicated in cell adhesion and cell death and to participate through these processes in the differentiation of T-cell precursors at a critical stage of thymocyte differentiation when positive selection is known to occur (Bernard et al). Engagement of the CD99 molecule by CD99 monoclonal antibodies has been shown to induce homotypic aggregation of various cell types. CD99 is expressed constitutively on all peripheral blood T-cells and becomes further up-regulated upon cell activation . CD99 mediates TCR/CD3-dependent activation of resting peripheral blood T-cells and specifically induces the production of the Th1 cytokines TNF-alpha and IFN-gamma.

➤ **Description :**

Recombinant CD99 shows a band at 18kDa on SDS-PAGE coomassie blue stained gel.
Recombinant CD99 is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile filtered liquid.

➤ **Formulation:**

100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA, 20% Glycerol without BSA and Sodium Azide.

➤ **Stability:**

Store vial at -20C° to -80C°. When stored at the recommended temperature, Cathepsin is stable for 12 months.

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by reducing and non-reducing SDS-PAGE coomassie blue gel.

➤ **Dimers and aggregates:**

Less than 1% as determined by coomassie blue SDS-PAGE gel analysis.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of CD99.

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.