

# Recombinant Human MART-1 (MELAN-A) Protein

## Certificate of Analysis and Data Sheet

➤ <b>Source:</b> E.Coli	➤ <b>Catalog No.</b> PRO-299
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### ➤ **Background:**

MART-1 (also known as Melan-A) is a melanocyte differentiation antigen. It is present in melanocytes of normal skin and retina, nevi and in more than 85% of melanomas. This antibody is very useful in establishing the diagnosis of metastatic melanomas and has also been shown to be positive in adrenal cortical cells and tumors derived from them making it very helpful in distinguishing adrenal cortical neoplasms from other tumors which are negative for this marker.

### ➤ **Description :**

MART-1 or Melan-A is a newly identified melanocyte differentiation antigen recognized by autologous cytotoxic T lymphocytes. Seven other melanoma associated antigens recognized by autologous cytotoxic T cells include MAGE-1, Tyrosinase, gp100, gp75, BAGE-1, and GAGE-1. Subcellular fractionation shows that MART-1 is present in melanosomes and endoplasmic reticulum. Human MART-1 is purified by proprietary chromatographic techniques.

### ➤ **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### ➤ **Formulation:**

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

### ➤ **Solubility:**

It is recommended to reconstitute the lyophilized Recombinant MART-1 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

➤ **Stability:**

Lyophilized Human MART-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution Human MART-1 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**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 Human MART-1.

➤ **Usage:**

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