

## Technical Data Sheet

## Human RANTES Standard

## Product Information

|                  |  |
|------------------|--|
| Material Number: | 558470   |
| Component:       | 51-9004185   |
| Description:     | Human RANTES Standard  |
| Size:            | 1 Vial(s) (1 ea)   |
| Storage Buffer:  | Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150. |

## Description

This product contains lyophilized recombinant human RANTES. When reconstituted, this product can be used as a standard control with the BD™ CBA Human RANTES Flex Set (Cat. No. 558324). Please refer to the technical data sheet included with the BD™ CBA Human RANTES Flex Set for further information.

## Preparation and Storage

Store the lyophilized standard at 4°C prior to reconstitution.

Lyosphere(s) from 1 vial of Human RANTES Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Human RANTES at a concentration of 2500 pg/mL. Following reconstitution, maintain the Human RANTES at 4°C and use within 12 hours. Any unused reconstituted standard must be discarded after this period (do not store or reuse).

## Application Notes

## Application

|                |                  |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

## Recommended Assay Procedure:

The Human RANTES Standard has been tested to assure to function as a standard when used with the BD™ Cytometric Bead Array (CBA), such as the BD™ CBA Human RANTES Flex Set (Cat. No. 558324). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Human RANTES Flex Set (Cat. No. 558324). An abbreviated instruction has been provided below (Preparation of Human RANTES Standard Protocol). The Human RANTES Standard should be reconstituted using Assay Diluent, which is provided with the BD™ CBA Human Soluble Protein Master Buffer Kit (Cat. No. 558264 or 558265) or it may also be purchased separately (Cat. No. 560104).

**Preparation of Human RANTES Standard:** The Human RANTES Standard is lyophilized and should be reconstituted and serially diluted before mixing with CBA capture beads and PE detection reagents.

1. Open one vial of the lyophilized Human RANTES Standard. Transfer the lyosphere(s) to a polypropylene tube (BD Falcon™, Cat. No. 352097). Label the tube "Top Standard".
2. Reconstitute the standard with 4.0 mL of Assay Diluent. Allow the reconstituted standard to equilibrate for at least 15 minutes before making dilutions. **Mix the reconstituted protein by pipette only. Do not vortex or mix vigorously.**
3. Label additional 12 x 75 mm tubes (BD Falcon™, Cat. No. 352008) and arrange them in the following order: Top Standard, 1:2, 1:4, 1:8, 1:16, 1:32, 1:64, 1:128, and 1:256.
4. Add 500 µl of Assay Diluent to each of the dilution tubes.
5. Perform a serial dilution by transferring 500 µl from the Top Standard to the 1:2 dilution tube and mix thoroughly. **Do not vortex, mix by pipet only.** Continue making serial dilutions by transferring 500 µl from the 1:2 tube to the 1:4 tube and so on to the 1:256 tube and mix thoroughly. Prepare one tube containing only Assay Diluent to serve as the 0 pg/mL negative control.

## Suggested Companion Products

| Catalog Number | Name                                       | Size      | Clone  |
|----------------|--|-----------|--------|
| 558324         | Human RANTES Flex Set                      | 1 Vial(s) | (none) |
| 558264         | Human Soluble Protein Master Buffer Kit    | 100 Tests | (none) |
| 558265         | Human Soluble Protein Master Buffer Kit    | 500 Tests | (none) |
| 560104         | Assay Diluent                              | 30 mL     | (none) |
| 352097         | BD Falcon™ Conical Centrifuge Tubes, 15 ML |           | (none) |
| 352008         | BD Falcon™ Round Bottom Tubes, 6 ML        |           | (none) |

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## Product Notices

1. ProClin is a trademark of Rohm and Haas Company.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
4. Warning: CBA lyophilized standard contains 0.02% (w/w) of a CMIT/MIT mixture (3:1), which is a mixture of:  
5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1).  
Hazard statement: May cause an allergic skin reaction.  
Precautionary statements: Wear protective gloves/eye protection. Wear protective clothing. Avoid breathing mist/vapours/spray. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.

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