

## Technical Data Sheet

Human MIP-1 $\alpha$  Standard

## Product Information

Material Number:	558468
Component:	51-9004192
Description:	Human MIP-1 $\alpha$ 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 macrophage inflammatory protein-1 $\alpha$  (MIP-1 $\alpha$ ). When reconstituted, this product can be used as a standard control with the BD™ CBA Human MIP-1 $\alpha$  Flex Set (Cat. No. 558325). Please refer to the technical data sheet included with the BD™ CBA Human MIP-1 $\alpha$  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 MIP-1 $\alpha$  Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Human MIP-1 $\alpha$  at a concentration of 2500 pg/mL. Following reconstitution, maintain the Human MIP-1 $\alpha$  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
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## Recommended Assay Procedure:

The Human MIP-1 $\alpha$  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 MIP-1 $\alpha$  Flex Set (Cat. No. 558325). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Human MIP-1 $\alpha$  Flex Set (Cat. No. 558325). An abbreviated instruction has been provided below (Preparation of Human MIP-1 $\alpha$  Standard Protocol). The Human MIP-1 $\alpha$  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 MIP-1 $\alpha$  Standard:** The Human MIP-1 $\alpha$  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 MIP-1 $\alpha$  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  $\mu$ l of Assay Diluent to each of the dilution tubes.
5. Perform a serial dilution by transferring 500  $\mu$ l 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  $\mu$ l 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
558325	Human MIP-1 $\alpha$ Flex Set	100 Tests	(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/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/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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