

Technical Data Sheet

Human MIP-1β Standard

Product Information

Material Number:	558469
Component:	51-9003984
Description:	Human MIP-1β 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-1β (MIP-1β). When reconstituted, this product can be used as a standard control with the BD™ CBA Human MIP-1β Flex Set (Cat. No. 558288). Please refer to the technical data sheet included with the BD™ CBA Human MIP-1β 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-1β Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Human MIP-1β at a concentration of 2500 pg/mL. Following reconstitution, maintain the Human MIP-1β 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-1β 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-1β Flex Set (Cat. No. 558288). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Human MIP-1β Flex Set (Cat. No. 558288). An abbreviated instruction has been provided below (Preparation of Human MIP-1β Standard Protocol). The Human MIP-1β 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-1β Standard: The Human MIP-1β 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-1β 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
558288	Human MIP-1β 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 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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