

Technical Data Sheet

Rat IFN- γ Standard

Product Information

Material Number:	558481
Component:	51-9004111
Description:	Rat IFN- γ 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 rat interferon- γ (IFN- γ). When reconstituted, this product can be used as a standard control with the BD™ CBA Rat IFN- γ Flex Set (Cat. No. 558305). Please refer to the technical data sheet included with the BD™ CBA Rat IFN- γ Flex Set for further information.

Preparation and Storage

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

Lyosphere(s) from 1 vial of Rat IFN- γ Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Rat IFN- γ at a concentration of 10,000 pg/mL. Following reconstitution, maintain the Rat IFN- γ 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 Rat IFN- γ 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 Rat IFN- γ Flex Set (Cat. No. 558305). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Rat IFN- γ Flex Set (Cat. No. 558305). An abbreviated instruction has been provided below (Preparation of Rat IFN- γ Standard Protocol). The Rat IFN- γ Standard should be reconstituted using Assay Diluent, which is provided with the BD™ CBA Mouse/Rat Soluble Protein Master Buffer Kit (Cat. No. 558266 or 558267) or it may also be purchased separately (Cat. No. 560104).

Preparation of Rat IFN- γ Standard: The Rat IFN- γ 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 Rat IFN- γ 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 μ l of Assay Diluent to each of the dilution tubes.
5. Perform a serial dilution by transferring 500 μ 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 μ 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
558305	Rat IFN- γ Flex Set	100 Tests	(none)
558266	Mouse/Rat Soluble Protein Master Buffer Kit	100 Tests	(none)
558267	Mouse/Rat 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 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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