

## Technical Data Sheet

## Rat TNF Standard

## Product Information

Material Number:	558484
Component:	51-9004115
Description:	Rat TNF 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 tumor necrosis factor (TNF). When reconstituted, this product can be used as a standard control with the BD™ CBA Rat TNF Flex Set (Cat. No. 558309). Please refer to the technical data sheet included with the BD™ CBA Rat TNF 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 TNF Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Rat TNF at a concentration of 10,000 pg/mL. Following reconstitution, maintain the Rat TNF 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 Rat TNF 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 TNF Flex Set (Cat. No. 558309). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Rat TNF Flex Set (Cat. No. 558309). An abbreviated instruction has been provided below (Preparation of Rat TNF Standard Protocol). The Rat TNF 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 TNF Standard:** The Rat TNF 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 TNF 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
558309	Rat TNF 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)

## BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	866.979.9408	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

*Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.*

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2015 BD

558484 Rev. 5



## 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.

## BD Biosciences

[bdbiosciences.com](http://bdbiosciences.com)

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	866.979.9408	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

*Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.*

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2015 BD

558484 Rev. 5

