

α -Crystallin (Gene Rv2031c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv**Catalog No. NR-14860**

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Product Description:

NR-14860 is a preparation of α -crystallin derived from the whole cell lysate of irradiated *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv. *M. tuberculosis* whole cell lysate was extracted with 0.1% n-octylthiogluconide and fractionated by isoelectric focusing. Fractions containing 16 kDa proteins were cleaned by size exclusion chromatography and dialyzed against 10 mM ammonium bicarbonate.

Lot: 70064311**Manufacturing Date: 13OCT2023**

Production and QC testing were performed by Colorado State University (CSU). The CSU production documentation for lot 23.Rv.10.13.16kDa is attached.

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WORK SHEET FOR PURIFIED NATIVE PROTIENS

General Information

BEI Catalog Number: NR-14860

Product Description: Purified 16kDa Protein (HspX, alpha-crystallin, Rv2031c)

CSU Lot Number: 23.Rv.10.13.16kDa

Species: *Mycobacterium tuberculosis*

Strain: H37Rv

Purification Information

Starting material (lot #): Pooled batches of 16kDa in need of further purification. See additional notes below.

Starting material (select one):

CFP: Filter Sterilized N/A

Cells: Irradiated Yes

Viability Test Performed: No Viable Organism Detected

Protocol used (SOP #): PP023.6, PP039.1

Date started: 10/3/23

Date completed: 10/13/23

Notebook; pages Kieran Broder (KB) BEI #3 pgs: 21-23 27, Megan Stookey (MS) #3 pg 99, MS #4 pg 1.

Additional notes (if applicable): Starting material detailed in notebook KB BEI #3 pgs 21-22. Each pool was re-quantified by BCA. Pool 3: "16kDa for Cleanup" was 3.54 mg and produced 5/29/13 by RH. Pool 5: "Rotofor pool 1, 13 mL" was 1.5 mg and produced 4/3/15 by MCL. Pool 6: "Rotofor pool 2, 25 mL" was 2.7 mg produced 4/3/15 by MCL. Pool 3 was run on the HPLC according to the protocol. Pools 5 and 6 were combined and run on the HPLC. All fractions from the HPLC runs containing pure HspX protein were combined for QC.

Quality Control Information

Clarity of product/suspension after dialysis: Clear

BCA: 0.141 mg/mL

Total protein: 0.8035 mg

Silver stain date: 10/11/23

Western blot date: 10/11/23 Antibody used: CS-49

Amount Loaded on gels: 2 µg

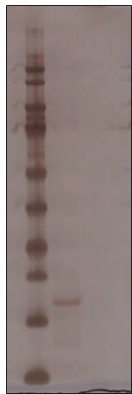
Notebook and page(s): KB BEI #3 pg 27

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QC Gel and Blot:

Silver Stain



CS-49



Aliquot Information

8 x 0.1 mg aliquots
1 x 0.0035 mg aliquot

*Aliquot information reflects aliquots made at the time of QC. Bulk aliquots will be broken down as needed.


Research Associate

10/16/2023
Date


Laboratory Supervisor

10/17/2023
Date