

***Brugia malayi* cCHAT Fusion Protein with N-Terminal Histidine Tag, Recombinant from *Escherichia coli***

**Catalog No. NR-29381**

**Product Description:** A recombinant fusion of the *Brugia malayi* heat shock protein 12.6 (Hsp12.6), abundant larval transcript 2 (ALT-2), and tetraspanin large extracellular loop (TSP-LEL) proteins containing an N-terminal histidine-tag was produced in *Escherichia coli* BL21-CodonPlus® (DE3)-RIL cells, purified under denaturing conditions using a combination of nickel affinity and size exclusion chromatography, and refolded by dialysis.

**Lot: 62138696**

**Manufacturing Date: 03JAN2012**

TEST	SPECIFICATIONS	RESULTS (FEB 2014, except as noted)
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>Purity by SDS-PAGE (Coomassie Blue Densitometer Scan)</b>	Dominant band near 37 kDa marker accounts for > 95% of staining intensity	Dominant band near 37 kDa marker accounts for > 95% of staining intensity (Figure 1) <sup>1</sup>
<b>Identification by Western Blot Analysis Monoclonal anti-histidine tag<sup>2</sup></b>	Reactive	Reactive (Figure 2) <sup>3</sup>
<b>Concentration by Pierce 660 nm Protein Assay<sup>4,5</sup></b>	Report results	114 µg per mL
<b>Protein Content</b>	Report results	171 µg
<b>Endotoxin Content (Limulus Amoebocyte Lysate Assay)<sup>6</sup></b>	Report results	30 to 60 EU per mL <sup>7</sup>
<b>Sterility</b>	Report results	0.22 µm sterile-filtered

<sup>1</sup>Test performed on bulk purified recombinant protein prior to refolding (JAN 2012)

<sup>2</sup>R&D Systems® (Cat. No. MAB050)

<sup>3</sup>Upon refolding, the recombinant protein formed high molecular weight aggregates that could not be denatured under standard SDS-PAGE conditions (see Figure 3).

<sup>4</sup>Thermo Scientific (Cat. No. 22660)

<sup>5</sup>Using BSA as a standard

<sup>6</sup>Endosafe® KTA, Charles River

<sup>7</sup>Test performed on bulk purified recombinant protein prior to vialing (JAN 2012)

**Date:** 21 APR 2014

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

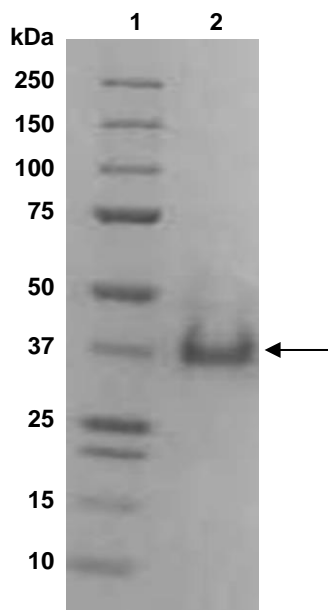
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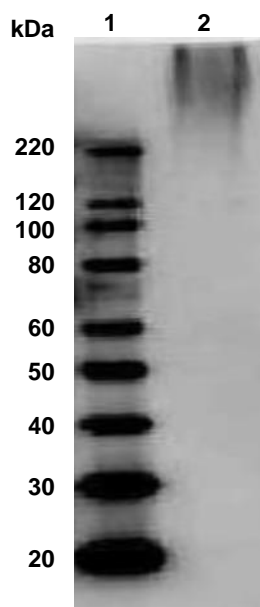


Figure 1 – SDS-PAGE (Prior to Refolding)



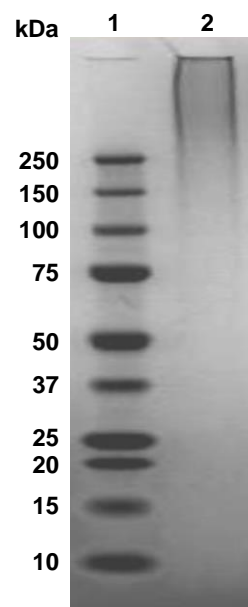
Lane 1: Precision Plus Protein™ marker  
(BioRad® 161-0373)  
Lane 2: NR-29381

Figure 2 – Western Blot



Lane 1: Magic Mark™ XP MW marker  
(Invitrogen™ LC5602)  
Lane 2: 1 µg NR-29381

Figure 3 – SDS-PAGE (After Refolding)



Lane 1: Precision Plus Protein™ marker  
(BioRad® 161-0373)  
Lane 2: NR-29381