

# Product Datasheet

## Recombinant Mycobacterium Tuberculosis ESAT6 His Protein

**NBP1-99045-0.05mg**

Unit Size: 0.05 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 4

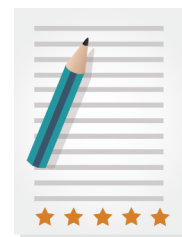
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**NBP1-99045-0.05mg**

## Recombinant Mycobacterium Tuberculosis ESAT6 His Protein

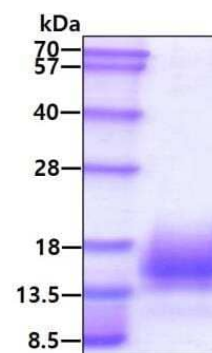
Product Information	
Unit Size	0.05 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	>90%, by SDS-PAGE
Buffer	20 mM Tris-HCl buffer (pH 8.0), 10% glycerol
Target Molecular Weight	11 kDa

Product Description	
Description	<p>A recombinant protein with a C-Terminal His-tag and corresponding to the amino acids 1-95 of Mycobacterium tuberculosis Mycobacterium Tuberculosis ESAT6</p> <p><b>Source:</b> <i>Baculovirus</i></p> <p><b>Amino Acid Sequence:</b> ADPMTEQQWN FAGIEAAASA IQGNVTSIHS LLDEGKQSLT KLAAAWGGSG SEAYQGQVQK WDATATELNN ALQNLARTIS EAGQAMASTE GNVTG MFAHH HHHH</p>
Reactivity Notes	Mycobacterium tuberculosis
Endotoxin Note	< 1.0 EU per 1 microgram of protein (determined by LAL method)

Product Application Details	
Applications	SDS-Page
Recommended Dilutions	SDS-Page

**Images**

SDS-Page: Recombinant Mycobacterium Tuberculosis ESAT6 Protein [NBP1-99045] - 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain



## Publications

Shurygina AP, Zabolotnykh N, Vinogradova T et al. Preclinical Evaluation of TB/FLU-04L-An Intranasal Influenza Vector-Based Boost Vaccine against Tuberculosis International journal of molecular sciences 2023-04-18 [PMID: 37108602] (In vitro assay)

He J, Fan Y, Shen D et al. Characterization of cytokine profile to distinguish latent tuberculosis from active tuberculosis and healthy controls Cytokine 2020-08-06 [PMID: 32771857] (Human)

Jang AR, Choi JH, Shin SJ, Park JH. Mycobacterium tuberculosis ESAT6 induces IFN- $\gamma$  gene expression in Macrophages via TLRs-mediated signaling. Cytokine. 2017-10-15 [PMID: 29046251] (Bacteria)

Koyama Y, Ito T, Hasegawa A et al. Exosomes derived from tumor cells genetically modified to express Mycobacterium tuberculosis antigen: a novel vaccine for cancer therapy. Biotechnol. Lett. 2016-08-02 [PMID: 27484689] (ICC/IF, Fish)





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### **Products Related to NBP1-99045-0.05mg**

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NBP3-09114	Mycobacterium Tuberculosis ESAT6 Antibody - BSA Free
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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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