

## Chimeric Chagas

**Description:** Recombinant Chimeric Chagas Multiantigen (MACH) (Trypanosoma cruzi) produced in E. Coli, is a polypeptide chain of 87 a.a. with epitopes PEP-2, TcD, TcE and SAPA. The protein is fused to a 6-His tag and having an Mw of 9.9kDa.

**Catalog #:** CCPS-008

For research use only.

**Purity:** Protein is >90% pure as determined by metal affinity chromatography.

### Formulation:

Chimeric Chagas Multiantigen was lyophilized from 20mM Tris pH-8.5, 100mM Sodium chloride, 20% trehalose and 0.1% Sodium azide as preservative.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Applications:

Suitable for use in ELISA and Lateral flow. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

### Solubility:

It is recommended to reconstitute the lyophilized Chimeric Chagas Multiantigen in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Introduction:

Trypanosoma cruzi, better known as T. cruzi, is a deadly parasite that causes Chagas disease. This disease is a chronic infection, which primarily affects the heart and nervous system, causing severe neurological disorders, as well as swelling or denervation of nervous tissue in the heart, colon and esophagus. Chagas disease often goes undiagnosed due to close association of symptoms to heart disease and a variety of other disorders. The organism can circulate in the blood of infected patients for many years after infection, and can lead to transfusion-acquired infections in blood recipients from these infected donors. Contaminated blood transfusions are suspected to be the primary way in which the parasite has been transmitted to industrialized countries.

### Storage:

Store lyophilized Chagas Multiantigen at 2-8°C. After reconstitution, store at -20°C. Prevent freeze/thaw cycles.

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