

Recombinant *T. cruzi* B13 Antigen, His tagged

Cat. No. B13-003T **Lot. No.** (See product label)

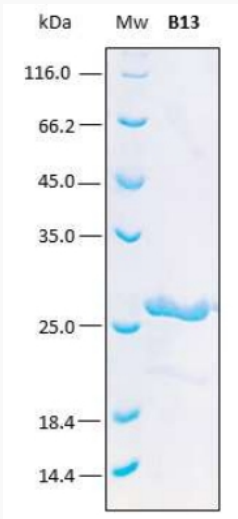
SPECIFICATION

Product Overview	The <i>T. cruzi</i> antigen B13 has been prepared as a recombinant antigen fused to a His tag in its N-terminal. It corresponds to the truncated <i>T. cruzi</i> surface antigen 2 (CA-2). Also known as Ag2, PEP2, TcR34.
Species	<i>T. cruzi</i>
Source	E.coli
Description	B13 protein is an immunodominant recombinant antigen which encodes part of the tandemly repeated domain of the <i>Trypanosoma cruzi</i> . It is a 140/116 kDa protein located on the surface of infective trypomastigotes from several strains.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35-25 kDa, while relative molecular mass calculated from amino acid sequence is 22.532,8 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.

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Storage Buffer	20 mM phosphate buffer pH 8, 0.15 M NaCl, 5 mM EDTA and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.07 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Umezawa, E.S., Bastos, S.F., Coura, J.R., Levin, M.J., González A., Rangel-Aldao, R., Zingales, B., Luquetti, A.O., and da Silveira, J.F. An improved serodiagnostic test for Chagas' disease employing a mixture of Trypanosoma cruzi recombinant antigens. 2003, Transfusion 43:91-97. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 3 µL of recombinant B13. Purity is > 98% as determined by gel electrophoresis. Bands which slightly appear at approx. 20 and 16 kDa correspond to this same protein as it is showed in a western blot performed

with a his-tag monoclonal antibody

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