

Recombinant *Dirofilaria immitis* ChimDiT33 Antigen, His&TRxA tagged

Cat. No. DiT33-01D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A recombinant multi-epitope chimera formed by different antigenic determinants of pepsin inhibitor precursor DiT33 for <i>D. immitis</i> has been prepared as a recombinant protein fused with a trxA-tag and a his-tag in its N-terminus.
Species	<i>Dirofilaria immitis</i>
Source	E.coli
Form	Liquid protein solution
Molecular Mass	38, 435.9 Da
AA Sequence	WB, DB, IE, DE, CLIA, LF
Purity	> 95%
Applications	WB, DB, Indirect ELISA positive control in direct ELISA, CLIA, lateral-flow. Where this product has not been tested for use in a particular technique, this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates.
Storage	Protein is shipped with dry ice. 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

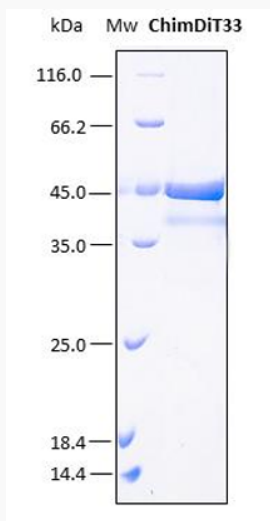
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	aggregation.
Storage Buffer	20 mM phosphate buffer pH 8 and 0.15 M NaCl
Concentration	1.21 mg/mL
Observations	In some cases, purified proteins run at a molecular weight which is slightly different to the theoretically calculated molecular weight may be due to the his-tag presence or sequences of hydrophobic residues, which can produce a delay in SDS-PAGE. Proteins should be maintained frozen at high concentration. The dilution to be performed for carrying out an ELISA assays, should be freshly-made with a small quantity of protein. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation. Prior making test dilutions and after defrosting the protein, is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilization of the biomolecule to the solid surface.
Reference	1. Hong, X., Santiago M. Kumar, S., Perler, F. and Carlow C. Cloning and expression of DiT33 from <i>Dirofilaria immitis</i>: a specific and early marker of heartworm infection. <i>Journal Parasitology</i>. 1996; 112(3): 331-338. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. <i>Anal Biochem</i>. 1989 Nov 1; 182(2): 319-26.
GENE INFORMATION	
Synonyms	DiT33

SDS-PAGE



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