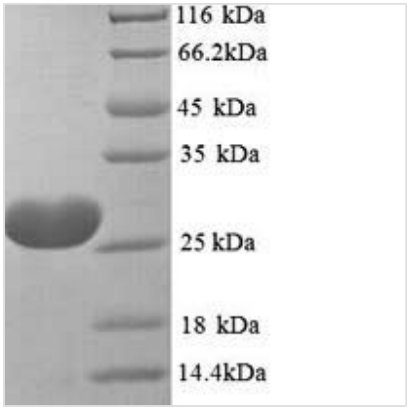
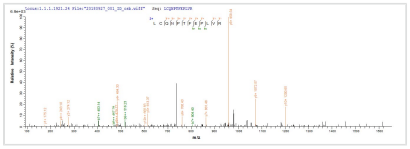
Recombinant Toxocara canis 26 kDa secreted antigen (TES-26)

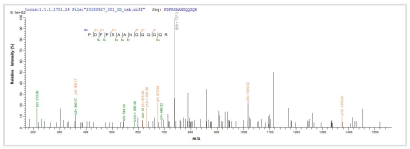
Product Code	CSB-YP347478THA
Relevance	Binds phosphatidylethanolamine.
Abbreviation	Recombinant Toxocara canis TES-26 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P54190
Alias	Toxocara excretory-secretory antigen 26 ;TES-26
Product Type	Recombinant Protein
Immunogen Species	Toxocara canis (Canine roundworm)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QCMDSASDCAANAGSCFTRPVSQVLQNRCQRTCNTCDCRDEANNCAASINL CQNPTFEPLVRDRCQKTCGLCAGCGFISSGIVPLVVTSAPSRRVSVTFANNVQ VNCGNTLTTAQVANQPTVTWEAQPNDRYTLIMVDPDFPSAANGQQGQRLHW WVINIPGNNIAGGTTLAAFQPSTPAANTGVHRYVFLVYRQPAAINSPLLNNLVV QDSERPGFGTTAFATQFNLGSPYAGNFYRSQA
Research Area	Others
Source	Yeast
Target Names	TES-26
Protein Names	Recommended name: 26 kDa secreted antigen Alternative name(s): Toxocara excretory-secretory antigen 26 Short name= TES-26
Expression Region	22-262aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	27.9kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP347478THA could indicate that this peptide derived from Yeast-expressed Toxocara canis (Canine roundworm) TES-26.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP347478THA could indicate that this peptide derived from Yeast-expressed Toxocara canis (Canine roundworm) TES-26.

Description

The 26 kDa secreted antigen, also known as TES-26, is a significant component in the excretory-secretory products of various helminths. This antigen has been identified in parasites such as Toxocara, Fasciola hepatica, Schistosoma, and Clonorchis sinensis. In Toxocara, the 26 kDa antigen is deglycosylated, enhancing the specificity of serodiagnosis for human toxocariasis [1]. Similarly, in Fasciola hepatica, understanding the biochemical characteristics and localization of the 26-28 kDa coproantigen is crucial for developing improved immunodiagnostic assays [2]. Moreover, in Schistosoma, the 26 kDa antigen has been shown to induce a protective immune IgE response in rats [3]. In Clonorchis sinensis, the 26 kDa band is a major protein in the excretory-secretory antigen [4].

The 26 kDa antigen is part of a group of antigens with molecular masses ranging from 26 to 38 kDa that have been investigated for their immunodominant properties in various infections [5]. These antigens are crucial for the immune response and have been associated with specific antibody reactions in diseases caused by parasites like Toxoplasma gondii [6], Strongyloides stercoralis [7], and Taenia solium [8]. Additionally, the 26 kDa antigen has been implicated in sparganosis, where it is identified as chymase and its degradation products [9].

References:
[1] W. Roldán, G. Elefant, & A. Ferreira, "Deglycosylation of toxocara excretory–secretory antigens improves the specificity of the serodiagnosis for human toxocariasis", Parasite Immunology, vol. 37, no. 11, p. 557-567, 2015. https://doi.org/10.1111/pim.12248

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[8] R. Rodríguez-Canul, J. Allan, C. Fletes, I. Sutisna, I. Kapti, & P. Craig, "Comparative evaluation of purified taenia solium glycoproteins and crude metacestode extracts by immunoblotting for the serodiagnosis of human t. solium cysticercosis", Clinical and Diagnostic Laboratory Immunology, vol. 4, no. 5, p. 579-582, 1997. https://doi.org/10.1128/cdli.4.5.579-582.1997
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Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.