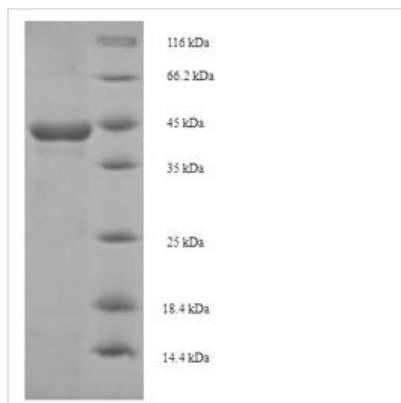




Recombinant Schistosoma mansoni Major egg antigen

Product Code	CSB-EP319453SXQ
Abbreviation	Recombinant Schistosoma mansoni Major egg antigen 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.	P12812
Alias	p40
Product Type	Recombinant Protein
Immunogen Species	Schistosoma mansoni (Blood fluke)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSGGKQHNAVSIPVNREQRSFEKQRRDLLTGLEHGGGAHRGNSIAPYTEDW PSTVDNWIDSSWKRWDDDMRRLRRGMFALLPLDTFSIGILENPFALMHQMDR QIQDIRERMGSLDVPSTGSVNDFLKDAYEYVGEDGKVHFKVRFDAQGFAPQDIN VTSSENRVTVHAKKETTTDGRKCSREFCRMVQLPKSIDDSQLKCRMTDDGVL MLEAPVKVDQNQSLTLNESGQVAVRPKSDNQIKAVPASQALVAKGVHGLSYV DDGSGGKRLHVEVAVDPVYKPEDLFVNVDNRRVVVSGRHHKQKSDQHGRSS SFAEFSQSYAIPETVDPLSVSAQVVGNTLVLEAPLEKQHAITH
Source	E.coli
Protein Names	Recommended name: Major egg antigen Alternative name(s): p40
Expression Region	1-354aa
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	43.4kDa
Protein Length	Full Length
Image	



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

Description

CUSABIO expressed and purified the Recombinant *Schistosoma mansoni* Major egg antigen p40 from *E. coli* as an N-terminal 6xHis fusion protein. This full-length protein (1-354aa) has a high purity greater than 90%. The protein of the observed size (43-45 kDa) was identified by SDS-PAGE analysis. This recombinant major egg antigen is in-stock and thus allows faster delivery to your lab bench. In addition to being an immunogen for antibody synthesis, the protein may be used in the studies of schistosomiasis.

The *Schistosoma mansoni* major egg antigen p40 (Smp40) is highly immunogenic in humans. It plays a significant role in impairing the CD4⁺ Th cell-mediated immune responses such as the granulomatous response to tissue deposited eggs and subsequent fibrosis. This process may prevent or alleviate clinical symptoms of schistosomiasis. Furthermore, Smp40 is a promising candidate for developing an anti-pathology schistosomal vaccine.

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.