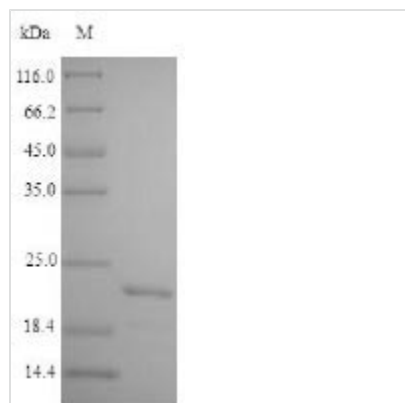




Recombinant Mycobacterium bovis Alpha-crystallin (hspX)

Product Code	CSB-BP358651MVH
Abbreviation	Recombinant Mycobacterium bovis hspX 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.	P0A5B8
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Mycobacterium bovis (strain ATCC BAA-935 / AF2122/97)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	ATTLPVQRHPRSLFPEFSELF AAFPSFAGLRPTFDTRLMRLEDEMKEGRYEVRAELPGVDPDKDVDIMVRDGLTIKAERTEQKDFDGRSEFAYGSFVRTVSLPVG ADEDDIKATYDKGILTVSVAVSEGKPTKHIQIRSTN
Research Area	Others
Source	Baculovirus
Target Names	hspX
Protein Names	16 kDa antigenHSP 16.3
Expression Region	2-144aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 9xHis-tagged
Mol. Weight	18.1 kDa
Protein Length	Full Length of Mature Protein

Image



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



Description

The gene responsible for the Mycobacterium bovis (strain ATCC BAA-935 / AF2122/97) hspX protein (2-144aa) is cloned into a plasmid vector to obtain recombinant plasmid, which is then transformed into baculovirus cells. baculovirus cells demonstrating successful uptake of the recombinant plasmid are selected based on their ability to endure a specific antibiotic. The baculovirus cells containing the recombinant plasmid are cultured under conditions promoting the expression of the gene of interest. The protein carries a C-terminal 9xHis tag. Post-expression, affinity purification is employed to isolate and purify the recombinant Mycobacterium bovis (strain ATCC BAA-935 / AF2122/97) hspX protein from the cell lysate. The resulting recombinant protein is subjected to denaturing SDS-PAGE, allowing for an estimation of its purity, surpassing 85%.

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.