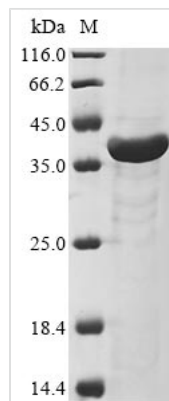




Recombinant Pyrroline-5-carboxylate reductase (proC)

Product Code	CSB-EP607537MVZ
Abbreviation	Recombinant Mycobacterium tuberculosis proC 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.	P9WHU7
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Mycobacterium tuberculosis
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MLFGMARIAIIGGGSIGEALLSGLLRAGRQVKDLVVAERMPDRANYLAQTYSVL VTSAADAVENATFVVAVKPADVEPVIADLANATAAAENDSAEQVFVTVVAGIT IAYFESKLPAGTPVVRAMPNAAALVGAGVTALAKGRFVTPQQLEEVSA LFDAV GGVLTVPESQLDAVTAVSGSGPAYFFLLVEALVDAGVGVGLSRQVATDLAAQT MAGSAAMLLERMEQDQGGANGELMGLRVDLTASRLRAAVTSPGGTTAAALR ELERGGFRMAVDAAVQAASRSEQLRITPE
Research Area	Others
Source	E.coli
Target Names	proC
Expression Region	1-295aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	37.6 kDa
Protein Length	Full Length
Image	



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

Description

The expression of the recombinant Mycobacterium tuberculosis proC protein entails introducing a DNA expression vector containing the gene for the desired protein (1-295aa) into e.coli cells through transformation. Subsequently, the cells are cultured to facilitate the expression of the intended protein. The protein features a N-terminal 10xHis tag and C-terminal Myc tag fusion. The resulting recombinant Mycobacterium tuberculosis proC protein is then gathered and purified from the cell lysate using affinity purification. Its purity, determined by SDS-PAGE, exceeds 85%.

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.