
Product Data Sheet

Product Name: Ag85A
 Cat. No.: GP22686
 Batch No.: 1

Product Data

Purity	>98%	Source	Baculovirus
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ronectin-binding protein A; Mycolyl transferase 85A.		
Amino Acid Sequence	ADPAFSRPGL PVEYLQVPSP SMGRDIKVQF QSGGANSPAL YLLDGLRAQD DFSGWDINTP AFEWYDQSGL SVVMPVGGQS SFYSDWYQPA CGKAGCQTYK WETFLTSELP GWLQANRHVK PTGSAVVGLS MAASSALTLA IYHPQQFVYA GAMSGLLDPS QAMGPTLIGL AMGDAGGYKA SDMWGPKEDP AWQRNDPLLN VGKLIANTR VVVYCGNGKP SDLGGNNLPA KFLEGFVRTS NIKFQDAYNA GGGHNGVDFD PDSGTHSWEY WGAQLNAMKP DLQRALGATP NTGPAPQGAH HHHHH.		
Formulation	The Ag85A solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

Antigen 85A is a member of the antigen 85 complex (Antigen 85A, B, C). The enzymes of the antigen 85 complex have mycolyltransferase activity and catalyze the synthesis of the very rich glycolipid of the mycobacterial cell wall, the cord factor (trehalose 6,6'-dimycolate, TDM). The cord factor is vital for the integrity of the mycobacterial cell wall and pathogenesis of the bacillus. TDM is synthesized from two molecules of trehalose-6'-monomycolate (TMM) by Antigen 85A.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant Mycobacterium tuberculosis Ag85A (43-338 a.a) produced in Hi-5 cells is a

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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single, glycosylated polypeptide chain having a molecular mass of 32.8kDa (305 a.a in total).Antigen 85A is fused to a His tag at C-terminus and purified by conventional chromatographic techniques.

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