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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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HSP65 Protein

Mycobacterium bovis BCG Recombinant HSP65 Partial Protein
Catalog No. SPR-116

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HSP65 Protein

Description

Mycobacterium bovis BCG Recombinant HSP65 Partial Protein

Applications

WB, SDS-PAGE, Functional Assay

Concentration

0.5 mg/ml

Conjugates

No tag

Nature

Recombinant

Species

Bacteria

Expression System

E. coli

Amino Acid Sequence

EDPYEKIGAE LVKEVAKKTD DVAGDGTTTA TVLAQALVRE GLRNVAAGAN PLGLKRGIEK AVEKVTETLL KGAKEVETKE QIAATAAISA GDQSIGDLIA EAMDKVGNEG VITVEESNTF GLQLELTEGM RFDKGYISGY FVTDPERQEA VLEDPYILLV SSKVSTVKDL LPLXXXXXX

Protein Length

Partial

Properties

Storage Buffer

20mM Tris, 150mM NaCl, 10% glycerol

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Multi-Step Purified

Specificity

~65 kDa

Cite This Product

Mycobacterium bovis BCG Recombinant HSP65 Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-116)

Certificate Of Analysis

This product has been certified >90% pure using SDS-PAGE analysis.

Biological Description

Alternative Names

60kDa chaperonin 2 Protein, Antigen A Protein, Cell wall protein A Protein, groEL Protein, GroEL2 Protein, GroL2 Protein, M. Tuberculosis cell wall protein A Protein, M. Tuberculosis HSP65 Protein, Protein Cpm60 2 Protein

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm

Accession Number

AAQ64501.1

Swiss Prot

Q1EHB9

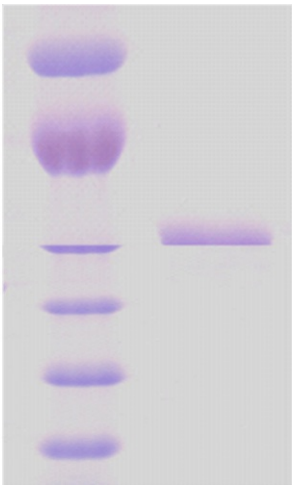
Scientific Background

HSP65 isolated from Mycobacterium bovis BCG, is a member of the HSP60 family of heat shock proteins (2, 3). HSP60s are mitochondrial chaperonins that are typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. In addition to its role as a heat shock protein, HSP60 functions as a chaperonin to assist in folding linear amino acid chains into their respective three-dimensional structure. HSP60s are a ubiquitous class of HSPs that specifically promote the folding and assembly of cellular polypeptides in an ATP-dependent manner (1). Specifically, sequence comparison of HSP65 from different mycobacterium strains showed that the protein sequence of M. bovis BCG is identical to that of M. tuberculosis, and very similar to that of M. leprae, the pathogens that cause tuberculosis and tuberculoid leprosy, respectively (2,4). Mycobacterium bovis BCG HSP65 was identified as the immunodominant antigen during mycobacterial diseases and vaccination. It is also believed to be the antigen that induces autoimmune disease, such as adjuvant arthritis in rats (5, 6).

References

1. Koll H., et al. (1992) Cell. 68: 1163-1175. 2. Thole J.E.R., et al. (1985) Infect. Immuno. 50: 800-806.
3. Thole J.E.R., et al., (1987) Infect. Immuno. 55: 1466-1475.
4. Shinnick T.M. Sweetser D., Thole J., van Embden J. and Young R.A. (1987) Infect. Immuno. 55: 1932-1935.
5. Van Eden W., et al. (1988) Nature 331: 171-178.
6. Cobelens P.M., et al. (2002) Rheumatology 41: 775-779.

Product Images



SDS-PAGE of 65kDa M. Bovis Hsp65 protein (SPR-116).

Product Citations (4)

ELISA

Putative consequences of exposure to Helicobacter pylori infection in patients with coronary heart disease in terms of humoral immune response and inflammation.

Matusiak, A. et al. (2016) Arch Med Sci. 12 (1): 4554.

PubMed ID: **Applications:** ELISA

Other Citations

Heat shock protein expression affects high-density lipoprotein function in atherosclerosis.

Tang, Y., Luo, Y. and Wu, Q. (2016) Int J Clin Exp Pathol. 9(4):4158-4166

PubMed ID: **Applications:** Functional Assay

Heat shock protein 65 promotes atherosclerosis through impairing the properties of high density lipoprotein.

Sun, H. et al. (2014) Atherosclerosis. 237(2):853-61

PubMed ID: 25463133 **Applications:** Functional Assay

Detection of autoantibodies against heat shock proteins and collapsin response mediator proteins in autoimmune retinopathy.

Adamus, G. et. al. (2013) BMC Ophthalmol. 0.575

PubMed ID: 24066722 **Applications:** Western Blot Control

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences
June 15, 2016: