

Product Information

MemDX™ Membrane Protein Human HSPA1A (Heat shock protein family A (Hsp70) member

1A) Full Length

Cat. No.: **MPC3374K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HSPA1A membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

HSPA1A

Protein Length

Full length

Protein Class

Receptor

Sequence

MAKAAAIGIDLGTTYSCGVFQHGKVEIIANDQGNRTTPSYVAFTDTERL
IGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDK
PKVQVSYKGETKAFYPEEISMMVLTKMKEIAEAYLGYPVTNAVITVPAYF
NDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDL
GGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHK
KDISQNKR AVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLL
QDFFNGRDLNKSINPDEAVAYGAQAAILMGDKSENVQDLLLLDVAPLS
LGLETAGGVMTALIKRNSTIPTKQTQIFTYSDNQPGVLIQVYEGERAMT
KDNNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANK
ITITNDKGRLSKEEIERMVQEAEKYKAEDDEVQRERVSAKNALESYAFNMK
SAVEDEGLKGKISEADKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE
QVCNPIISGLYQGAGGPGPGFGAQGPKGGSGSGPTIEEV

Product Description

Expression Systems

E.coli

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

HSPA1A

Full Name

Heat shock protein family A (Hsp70) member 1A

Introduction

This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.

Alternative Names

HSPA1A; HSP72; HSPA1; HSP70I; HSP70-1; HSP70-2; HSP70.1; HSP70.2; HSP70-1A; HEL-S-103; heat shock 70 kDa protein 1A; HSP70-1/HSP70-2; HSP70.1/HSP70.2; Heat shock 70 kDa protein 1B; Heat shock 70 kDa protein 2; dnaK-type molecular chaperone HSP70-1; epididymis secretory protein Li 103; epididymis secretory sperm binding protein; heat shock 70 kDa protein 1; heat shock 70 kDa protein 1/2; heat shock 70 kDa protein 1A/1B; heat shock 70kD protein 1A; heat shock 70kDa protein 1A; heat shock-induced protein; Heat shock protein family A (Hsp70) member 1A

Gene ID

[3303](#)

UniProt ID

[P0DMV8](#)