Datasheet for ABIN7504931

# HSP70 1A Protein (AA 2-641) (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | HSP70 1A (HSPA1A) |
| Protein Characteristics: | AA 2-641 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HSP70 1A protein is labelled with His tag. |

## Product Details

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| Sequence: | Ala2-Asp641 |
| Characteristics: | A DNA sequence encoding the Human HSPA1A (P0DMV8-1) (Ala2-Asp641) was expressed with a polyhistidine tag at the N-terminus. |
| Purity: | > 85 % as determined by reducing SDS-PAGE. |

## Target Details

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| Target: | HSP70 1A (HSPA1A) |
| Alternative Name: | HSPA1A (HSPA1A Products) |
| Background: | Abbreviation: HSPA1A<br>Target Synonym: heat shock protein family A (Hsp70) member 1A,heat shock protein family A (Hsp70) member 1B,HSP70-1B,HSP70-2,HSP70.2<br>Background: This intronless gene encodes a 70 kDa heat shock protein which is a member of |

## Target Details

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| | the heat shock protein 70 family. In conjuction 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. |
| Molecular Weight: | Calculated MW: 69.92 kDa<br>Observed MW: 72.22 kDa |
| UniProt: | P0DMV8-1 |
| Pathways: | Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Expiry Date: | 12 months |