# Thymine Dioxygenase JBP1-A (JBP1A), Partial (JBP1A) Trypanosoma Cruzi Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Thymine dioxygenase JBP1-A (JBP1A), partial, Recombinant Protein |
| **Full Product Name** | Recombinant Trypanosoma cruzi Thymine dioxygenase JBP1-A (JBP1A), partial |
| **Product Gene Name** | JBP1A recombinant protein |
| **Product Synonym Gene Name** | JBP1A; Tc00.1047053510357.10 |
| **Product Synonym Names** | Thymine dioxygenase JBP1-A; EC=1.14.11.6; J-binding protein 1A; Thymidine hydroxylase JBP1-A |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 93,816 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q4DBW3 |
| **Species** | Trypanosoma cruzi (strain CL Brener) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for JBP1A recombinant protein** | MBS1366735 is a recombinant protein targeting JBP1A. Also known as Recombinant Trypanosoma cruzi Thymine dioxygenase JBP1-A (JBP1A), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of JBP1A recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JBP1A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 71421637 |
| **NCBI GeneID** | 3542898 |
| **NCBI Accession #** | XP_811851.1 |
| **UniProt Primary Accession #** | Q4DBW3 |
| **UniProt Related Accession #** | Q4DBW3 |
| **GenBank Nucleotide #** | XM_806758.1 |
| **NCBI Official Full Name** | DnaJ chaperone protein |

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| **NCBI Official Symbol** | Tc00.1047053510357.10 |
| **UniProt Protein Name** | Thymine dioxygenase JBP1-A |
| **UniProt Synonym Protein Names** | J-binding protein 1A; Thymidine hydroxylase JBP1-A |
| **Protein Family** | Thymine dioxygenase |
| **UniProt Gene Name** | JBP1A |
| **UniProt Entry Name** | JBP1A_TRYCC |
| **NCBI Protein Information** | DnaJ chaperone protein |
| **UniProt Comments for JBP1A** | Dioxygenase that catalyzes the first step of DNA base J (beta-d-glucosyl-HOMedU) biosynthesis by converting thymine to 5-hydroxymethyluracil (HOMedU). DNA base J is a hypermodified thymidine residue found in the genome of kinetoplastid parasites, which is localized primarily to repetitive DNA, namely the telomeres, and is implicated in the regulation of antigenic variation. Also specifically binds to base J-containing DNA (J-DNA). Involved in propagation and maintenance of DNA base J synthesis initiated by JBP2 by specifically binding already synthesized DNA base J and propagating J synthesis. Thymine dioxygenase activity and J-DNA-binding are independent functions (). |
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