

# Translation initiation factor IF-2, mitochondrial Recombinant Protein | IFM1 recombinant protein

Recombinant *Saccharomyces cerevisiae* (strain 204508 / S288c) Translation initiation factor IF-2, mitochondrial

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|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA114673</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

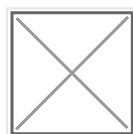
## PRODUCT SYNONYMS

Translation initiation factor IF-2; mitochondrial; Recombinant *Saccharomyces cerevisiae* (strain 204508 / S288c) Translation initiation factor IF-2; IFM1 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Positions      | 43-676aa; Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence                | KGKRRNQISK KELKPLNFSI PNYISVNKLA NLLNCRVERL IKDLTALGFE NITTTYILSK EYVELILQEY NFALPNLSTS TNLDNVYDEL KSPVNPCLLT KRAPVVTIMG HVDHGKTTII DYLRKSSVVA QEHGGITQHI GAFQITAPKS GKKITFLDTP GHAAFLKMRE RGANITDIIV LVVSVEDSLM PQTLEAIKHA KNSGNEMIIA ITKIDRIPQP KEREKKIEKV INDLIVQGIP VEKIGGDVQV IPISAKTGEN MDLLEESIVL LSEVMDIRAE NSPKTIAEGW IIESQVKKQV GNVATVLVKK GTLQKGKILI CGNTFCIKIN LIDDKGIPIL KATPSYATEV LGWKDVPHVG DEVIQVKSEA IAKKFISKRQ DLIEVQKNSS IVEKLNEERA LAKEQHLNKE LEHENTVQEH EQNTGPKLIN YIIKCDVSGS AEAHSVESISS LGNDEVRCNV ISSSVGIPTD SDLKMAQITE STILCFNLGN LPSEVINNRA GIKIKQYNVI YKLIEDVTET LTENLKPIFE KKIVSTVDVR ETFDFRLKKK IIRIAGCKVN NGVIKKNSLV QVVRGPNEDV IFDGKISTLK HNKDDVAEVS KGHECGITFE SGFEGFKPGD KILVYENVRV PRYL |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                      |
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| Related Product Information for IFM1 recombinant protein | One of the essential components for the initiation of protein synthesis. Protects formylmethionyl-tRNA from spontaneous hydrolysis and promotes its binding to the 30S ribosomal subunits. Also involved in the hydrolysis of GTP during the formation of the 70S ribosomal complex. |
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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>References</b> | <p>Mitochondrial translational-initiation and elongation factors in <i>Saccharomyces cerevisiae</i>. Vambutas A., Ackerman S.H., Tzagoloff A. Eur. J. Biochem. 201:643-652(1991)</p> <p>The nucleotide sequence of <i>Saccharomyces cerevisiae</i> chromosome XV. Dujon B., Albermann K., Aldea M., Alexandraki D., Ansorge W., Arino J., Benes V., Bohn C., Bolotin-Fukuhara M., Bordonne R., Boyer J., Camasses A., Casamayor A., Casas C., Cheret G., Cziepluch C., Daignan-Fornier B., Dang V.-D., de Haan M., Delius H., Durand P., Fairhead C., Feldmann H., Gaillon L., Galisson F., Gamo F.-J., Gancedo C., Goffeau A., Goulding S.E., Grivell L.A., Habbig B., Hand N.J., Hani J., Hattenhorst U., Hebling U., Hernando Y., Herrero E., Heumann K., Hiesel R., Hilger F., Hofmann B., Hollenberg C.P., Hughes B., Jauniaux J.-C., Kalogeropoulos A., Katsoulou C., Kordes E., Lafuente M.J., Landt O., Louis E.J., Maarse A.C., Madania A., Mannhaupt G., Marck C., Martin R.P., Mewes H.-W., Michaux G., Paces V., Parle-McDermott A.G., Pearson B.M., Perrin A., Pettersson B., Poch O., Pohl T.M., Poirey R., Portetelle D., Pujol A., Purnelle B., Ramezani Rad M., Rechmann S., Schwager C., Schweizer M., Sor F., Sterky F., Tarassov I.A., Teodoru C., Tettelin H., Thierry A., Tobiasch E., Tzermia M., Uhlen M., Unseld M., Valens M., Vandenbol M., Vetter I., Vlcek C., Voet M., Volckaert G., Voss H., Wambutt R., Wedler H., Wiemann S., Winsor B., Wolfe K.H., Zollner A., Zumstein E., Kleine K. Nature 387:98-102(1997)</p> <p>) Global analysis of protein expression in yeast. Ghaemmaghami S., Huh W.-K., Bower K., Howson R.W., Belle A., Dephoure N., O'Shea E.K., Weissman J.S. Nature 425:737-741(2003)</p> |
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## NCBI AND UNIPROT INFORMATION

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| <b>NCBI GI #</b>                  | 6324550                                           |
| <b>NCBI GeneID</b>                | 854135                                            |
| <b>NCBI Accession #</b>           | NP_014619.1                                       |
| <b>NCBI GenBank Nucleotide #</b>  | NM_001183277.1                                    |
| <b>UniProt Accession #</b>        | P25038; Q12693; D6W242                            |
| <b>Molecular Weight</b>           | 97.5 kDa                                          |
| <b>NCBI Official Full Name</b>    | translation initiation factor 2                   |
| <b>NCBI Official Symbol</b>       | IFM1                                              |
| <b>NCBI Protein Information</b>   | translation initiation factor 2                   |
| <b>UniProt Protein Name</b>       | Translation initiation factor IF-2, mitochondrial |
| <b>UniProt Gene Name</b>          | <b>IFM1</b>                                       |
| <b>UniProt Synonym Gene Names</b> | IF-2(Mt); IF-2Mt; IF2(mt)                         |
| <b>UniProt Entry Name</b>         | IF2M_YEAST                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ifm1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114673>