

# Recombinant Human EIF2S2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** EIF2S2-2521H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | EIF2S2 MS Standard C13 and N15-labeled recombinant protein (NP_003899) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Eukaryotic translation initiation factor 2 (EIF-2) functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA and binding to a 40S ribosomal subunit. EIF-2 is composed of three subunits, alpha, beta, and gamma, with the protein encoded by this gene representing the beta subunit. The beta subunit catalyzes the exchange of GDP for GTP, which recycles the EIF-2 complex for another round of initiation. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 38.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEA<br>DEEDTRKKDASDDLDDLNFFNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQPEPE<br>DDLDIMLGNKKKKKKNVKFPDEDEILEKDEALEDEDNKKDDGISFSNQTGPAWAGSE<br>RDYTYDELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDICK<br>LLHRQPKHLLAFLAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCHTCR<br>SPDTILQKDTRLFLQCETCHSRCSVASIKTGFQAVTGKRAQLRAKANTRTRPLEQK                                                                                                                                                                                    |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | LISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | EIF2S2 eukaryotic translation initiation factor 2 subunit beta [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>  | EIF2S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | EIF2S2; eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa; EIF2, eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD ); eukaryotic translation initiation factor 2 subunit 2; EIF2beta; PPP1R67; protein phosphatase 1; regulatory subunit 67; eIF-2-beta; eukaryotic initiation factor 2-beta; protein phosphatase 1, regulatory subunit 67; eukaryotic translation initiation factor 2 beta; eukaryotic translation initiation factor 2 subunit beta; EIF2; EIF2B; MGC8508; DKFZp686L18198; |
| <b>Gene ID</b>          | 8894                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_003908                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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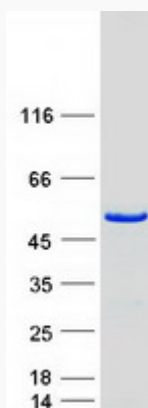
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**Protein Refseq** NP\_003899

**MIM** 603908

**UniProt ID** P20042

**SDS-PAGE**



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