

## Product datasheet for PH300368

### eIF2 alpha (EIF2S1) (NM\_004094) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EIF2S1 MS Standard C13 and N15-labeled recombinant protein (NP_004085)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200368
Predicted MW:	36.1 kDa
Protein Sequence:	>RC200368 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIRSINKLIRIGRNEC VVVIRVDKEKGYIDL SKRRVSPEEAIKCEDKFTKSKTVYSILRHVAEVLEYTKDEQLES LFORTAWVFDD KYKRPGYGAYDAFKHAVSDPSILDSDLNEDEREVLININRRLTPQAVKIRADIEVACYGYEGIDAVKE ALRAGLNCSTENMPIKINLIAPPRYVMTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVMPEKVVTD TDETELARQMERLERENAEVDGDDDAEEMEAKAED  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004085</a>
RefSeq Size:	4165
RefSeq ORF:	945
Synonyms:	EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A
Locus ID:	1965



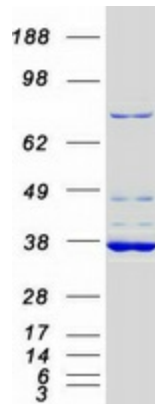
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UniProt ID: [P05198](#), [Q53XC0](#)

Cytogenetics: 14q23.3

**Summary:** The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010]

### Product images:



Coomassie blue staining of purified EIF2S1 protein (Cat# [TP300368]). The protein was produced from HEK293T cells transfected with EIF2S1 cDNA clone (Cat# [RC200368]) using MegaTran 2.0 (Cat# [TT210002]).