

Product datasheet for PH315158

EGLN1 (NM_022051) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | EGLN1 MS Standard C13 and N15-labeled recombinant protein (NP_071334) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC215158 |
| Predicted MW: | 46.5 kDa |
| Protein Sequence: | >RC215158 representing NM_022051 Red=Cloning site Green=Tags(s) MANDSGGPGGPPSERDRQYCELCGKMNELLRCSRCSFFYCCKEHQRQDWKHKHLVCQGSEGALGHGVG PHQHSGPAPPAAVPPPRAGAREPRKAAARRDNASGDAAKGKVKAKPPADPAAAAAPCRAAAGGQGSAAVA EAEPGKEEPPARSSLFQEKANLYPPSNTPGDALSPGGGLRPNQTKPLPALKLALLEYIVPCMNKHGICV DDFLGKETGQQIGDEVRLHDTGKFTDGLVLSQKSDSSKDIRGDKITWIEGKEPGCETIGLLMSSMDDL RHCNGKLGSYKINGRTKAMVACYPGNGTGYVRHVDNPNPNDGRCVTCIYYLNKDWDAAKVS GGILRIFPEGK AQFADIEPKFDRLLFFWSDRRNPHEVQPAYATRYAITVWYFDADERARAKVKYL TGEKGVRELNKP SDS VGKDVF TRTRPLEQKLI SEEDLAANDILDYKDDDDKV |
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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: | <u>NP_071334</u> |
| RefSeq Size: | 7102 |
| RefSeq ORF: | 1278 |
| Synonyms: | C1orf12; ECYT3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6 |



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Locus ID: 54583

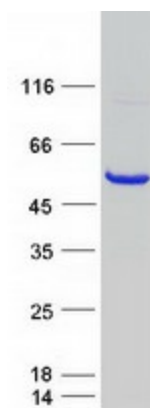
UniProt ID: [Q9GZT9](#), [R4SCQ0](#)

Cytogenetics: 1q42.2

Summary: The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3). [provided by RefSeq, Nov 2009]

Protein Pathways: Pathways in cancer, Renal cell carcinoma

Product images:



Coomassie blue staining of purified EGLN1 protein (Cat# [TP315158]). The protein was produced from HEK293T cells transfected with EGLN1 cDNA clone (Cat# [RC215158]) using MegaTran 2.0 (Cat# [TT210002]).