

Recombinant Human EGLN1 protein

Cat. No. EGLN1-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PHD2 (EGLN1) protein was expressed in a baculovirus expression system as the full length protein (accession number NP_071334.1) with an N-terminal FLAG tag.
Species	Human
Source	Insect cells
Description	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).
Molecular Mass	47 kDa
Applications	This protein is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

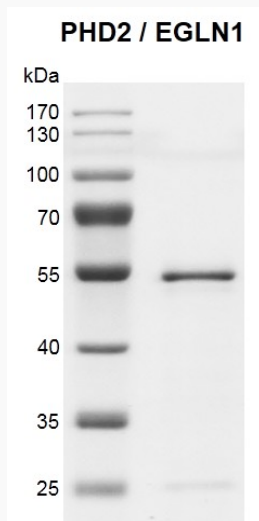
Storage Buffer	Recombinant PHD2 / EGLN1 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.
Full Length	Full L.
GENE INFORMATION	
Gene Name	EGLN1 egl-9 family hypoxia inducible factor 1 [Homo sapiens (human)]
Official Symbol	EGLN1
Synonyms	EGLN1; egl-9 family hypoxia inducible factor 1; HPH2; PHD2; SM20; ECYT3; HALAH; HPH-2; HIFPH2; ZMYND6; C1orf12; HIF-PH2; egl nine homolog 1; HIF-prolyl hydroxylase 2; egl nine-like protein 1; hypoxia-inducible factor prolyl hydroxylase 2; prolyl hydroxylase domain-containing protein 2; zinc finger MYND domain-containing protein 6; EC 1.14.11.29
Gene ID	54583
mRNA Refseq	NM_022051
Protein Refseq	NP_071334
MIM	606425
UniProt ID	Q9GZT9

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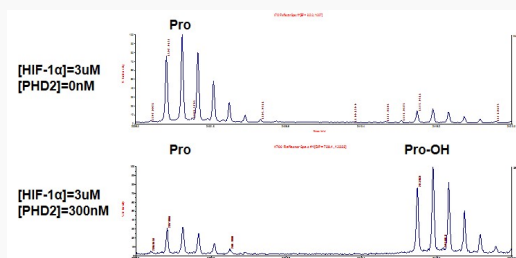
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10% SDS-PAGE
Coomassie staining



MALDI-TOF for PHD2
/ EGLN1 protein



3 μ M HIF1A peptide was incubated with 300 nM PHD2 protein in 30 μ reaction system for 2 hours at 30 centigrade. The reaction product was detected by MALDI-TOF.

Single 3 μ M HIF1- α peptide was used as negative control.

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