

Recombinant Human EGLN1, GST-tagged

Cat. No. EGLN1-12325H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGLN1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	273-426a.a.
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).
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	EGLN1 egl nine homolog 1 (C. elegans) [Homo sapiens]
Official Symbol	EGLN1
Synonyms	EGLN1; egl nine homolog 1 (C. elegans); C1orf12, EGL nine (C.elegans) homolog 1; egl nine homolog 1; HIF prolyl hydroxylase 2; HIFPH2; PHD2; SM 20; ZMYND6; egl nine-like protein 1; HIF-prolyl hydroxylase 2; zinc finger MYND domain-containing protein 6; hypoxia-inducible factor prolyl hydroxylase 2; prolyl hydroxylase domain-containing protein 2; HPH2; SM20; ECYT3; HPH-2; C1orf12; HIF-PH2; DKFZp761F179;
Gene ID	54583
mRNA Refseq	NM_022051
Protein Refseq	NP_071334
MIM	606425
UniProt ID	Q9GZT9
Chromosome Location	1q42.1
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem; Renal cell carcinoma, conserved biosystem;
Function	L-ascorbic acid binding; iron ion binding; metal ion binding; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two

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atoms of oxygen; peptidyl-proline dioxygenase activity; protein binding; zinc ion b

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