

Recombinant human EGLN1, GST tagged

Cat. No. EGLN1-126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EGLN1 full-length ORF (AAH05369.1, 1 a.a. - 128 a.a.) was expressed in Wheat Germ, with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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).
Form	Liquid
Molecular Mass	41 kDa
AA Sequence	MVACYPGNGTGYVRHVDNPNNGDGRCVTCIYYLNKDWDAAKVS GGILRIFPEGKAQFA DIEPKFDRLLFFWSDRRNP HEVQPAYATRYAITVWYFDADERARAKVKYLTGEKGV RVELNKPSDSVGKDVF
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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;

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

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