

Recombinant Human EGLN1, MYC/DDK-tagged

Cat. No. EGLN1-127H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGLN1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	45.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

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Gene Name	EGLN1 egl-9 family hypoxia-inducible factor 1 [Homo sapiens (human)]
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	Cellular response to hypoxia; HIF-1 signaling pathway; HIF-2-alpha transcription factor network
Function	L-ascorbic acid binding; peptidyl-proline 4-dioxygenase activity; peptidyl-proline dioxygenase activity

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