

Recombinant Human Egl Nine Homolog 3 (C. elegans), His-tagged

Cat. No. EGLN3-6851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EGLN3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-239aa
Description	EGLN3, a member of the EGLN family of prolyl hydroxylases, has been shown to catalyze hydroxylation of the α subunit of hypoxia-inducible factor- α , which targets hypoxia-inducible factor- α for ubiquitination by a ubiquitin ligase complex containing the von Hippel-Lindau tumor suppressor.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol, 0.3M NaCl, 5mM DTT, 2mM EDTA.
Molecular Mass	29.8 kDa (263aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS HMPLGHI MRLDLEKIAL EYIVPCLHEV GFCYLDNFLG EVVGDCVLER VKQLHCTGAL RDGQLAGPRA GVSKRHLRGD QITWIGGNEE GCEAISFLLS LIDRLVLYCG SRLGKYVYKE RSKAMVACYP GNGTGYVRHV DNPNGDGRCI TCIYYLNKNW DAKLHGILR IFPEGKSFIA DVEPIFDRLL FFWSDRRNPH EVQPSYATRY AMTVWYFDAE ERAEAKKKFR

 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

	NLTRKTESAL TED
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -71°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	EGLN3 egl nine homolog 3 (C. elegans) [Homo sapiens]
Official Symbol	EGLN3
Synonyms	EGLN3; egl nine homolog 3 (C. elegans); EGL nine (C.elegans) homolog 3; egl nine homolog 3; HIF prolyl hydroxylase 3; HIFPH3; PHD3; HPH-1; HPH-3; HIF-PH3; HIF-prolyl hydroxylase 3; egl nine-like protein 3 isoform; hypoxia-inducible factor prolyl hydroxylase 3; prolyl hydroxylase domain-containing protein 3; FLJ21620; MGC125998; MGC125999;
Gene ID	112399
mRNA Refseq	NM_022073
Protein Refseq	NP_071356
MIM	606426

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UniProt ID	Q9H6Z9
Chromosome Location	14q12
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 paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding;

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