

# Recombinant human EGLN3/PHD3 protein

Catalog Number: ATGP1609

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-239aa

### UniProt No.

Q9H6Z9

### NCBI Accession No.

NP\_071356

### Alternative Names

Egl nine homolog 3, HIFPH3, PHD3

## PRODUCT SPECIFICATION

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### Molecular Weight

29.8 kDa (263aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.3M NaCl, 5mM DTT, 2mM EDTA

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

EGLN3, a member of the EGLN family of prolyl hydroxylases, has been shown to catalyze hydroxylation of the alpha subunit of hypoxia-inducible factor-alpha, which targets hypoxia-inducible factor-alpha for ubiquitination by a ubiquitin ligase complex containing the von Hippel-Lindau (VHL) tumor suppressor. EGLN3 is the most important isozyme in limiting physiological activation of HIFs (particularly HIF2A) in hypoxia. Also hydroxylates PKM2 in hypoxia, limiting glycolysis. under normoxia, hydroxylates and regulates the stability of ADRB2. Recombinant human EGLN3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MPLGHI MRLDLEKIAL EYIVPCLHEV GFCYLDNFLG EVVGDCVLER  
VKQLHCTGAL RDGQLAGPRA GVSKRHLRGD QITWIGGNEE GCEAISFLLS LIDRLVLYCG SRLGKYYVKE RSKAMVACYP  
GNGTGYVRHV DNPNGDGRCI TCIYYLNKNW DAKLHGGILR IFPEGKSFIA DVEPIFDRLI FFWSDRRNPH EVQPSYATRY  
AMTVWYFDAE ERAEAKKKFR NLTRKTESAL TED

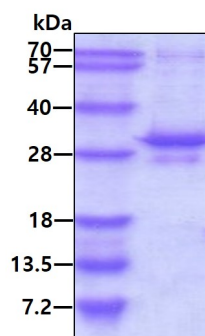
## General References

Epstein A.C.R., et al. (2001) Cell. 107:43-54

Lee S., et al. (2000) Cancer Cell. 8:155-167

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.