

EGLN3, 1-239aa Human

His-tagged Recombinant *E. coli*

Catalog #: ATGP1609

Full name: Egl nine homolog 3

Synonyms: HIFPH3, PHD3

Type: Protein

NCBI Accession No.: NP_071356

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 (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 using conventional chromatography.

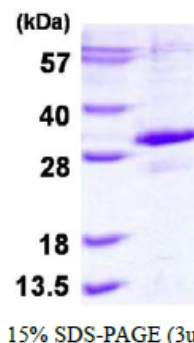
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol,

0.3M NaCl, 5mM DTT, 2mM EDTA

Molecular Weight: 29.8 kDa (263aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSIMPLGHI MRLDEKIAL EYIVPOLHEV GFCYLDNFLG EVVGDCVLER VKQLHCTGAL RDGQLAGPRA
GVSKRHLRGD QITWIGNEE GCEAISFLLS LIDRLVLYCG SRLGKYYVKE RSKAMVACYP GNGTGYVRHV DNPNGDGRCI TCITYLNKNW
DAKLHGGILR IFPEGKSFTA DVEPIFDRLI FFWSDRRNPH EVQPSYATRY AMTWYFQAE ERAEAKKKFR NLTRKTESAL TED

Application: SDS-PAGE

Research category: Metabolism, Cardiovascular

General references: Epstein A.C.R., *et al.* (2001) *Cell*. 107:43-54
Lee S., *et al.* (2000) *Cancer Cell*. 8:155-167

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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