

**EGLN3, 1-239aa, Human, His tag, E.coli**

**Cat.NO.: TP01986**

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3th Edition

**Synonyms:**Egl nine homolog 3, HIFPH3, PHD3

**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.

**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

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMPLGHIMRLDLEKIALEYIVPCLHEVGFYLDNLFGEVVGDCVLERVKQLH  
CTGALRDGQLAGPRAGVSKRHLRGDQITWIGGNEEGCEAISFLLSLIDRLVLYCGSRLGKYYVKERSKAMVACYPG  
NGTGYYVRHVDNPNNGDGRICITCIYYLNKNWDAKLHGGILRIFPEGKSFADVEPIFDRLFFWSDRRNPHEVQPSYAT  
RYAMTVWYFDAEERAEAKKKFRNLTRKTESALTED

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.