9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

EGLN3 Human

Egl Nine Homolog 3 Human Recombinant
RCP0726

Product Overview

Name	EGLN3 Human
Description	
Egl Nine Homolog 3 Human Recombinant	
Accession (Primary)	Q9H6Z9
Synonyms	
Egl nine homolog 3 (C. elegans), Hypoxia-inducible factor prolyl hydroxylase 3, Prolyl hydroxylase domain-containing protein 3, HIF-PH3, PHD3, egl nine-like protein 3 isoform, HIF prolyl hydroxylase 3, EC 1.14.11.29, HPH-1, HPH-3.	
Introduction	
Egl Nine Homolog 3 (EGLN3) belongs to the EGLN family of prolyl hydroxylases. EGLN3 catalyzes hydroxylation of the ? subunit of hypoxia-inducible factor-?, which targets hypoxia-inducible factor-? for ubiquitination by a ubiquitin ligase complex containing the von Hippel-Lindau (VHL) tumor suppressor. EGLN3 is the most significant isozyme in limiting physiological activation of HIFs (especially HIF2A) in hypoxia. EGLN3 is activated in cardiovascular cells and Hela cells after exposure to hypoxia. In addition, EGLN3 hydroxylates PKM2 in hypoxia, thus limiting glycolysis. Under normoxia, EGLN3 hydroxylates and regulates the stability of ADRB2. EGLN3 is inhibited by polynitrogen compounds possibly by chelation to Fe2+ ions.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The EGLN3 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 300mM NaCl, 5mM DTT, 2mM EDTA and 50% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90% as determined by SDS-PAGE.	
Amino acid sequence	

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

Precautions

EGLN3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9H6Z9)