



# Recombinant Rat Egl nine homolog 1 (Egln1)

<b>Product Code</b>	CSB-EP007481RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P59722
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MNKHGICVVD DFLGRETGQQ IGDEVRLHD TGKFTDGQLV SQKSDSSKDI RGDKITWIEG KEPGCETIGL LMSSMDDLIR HCSGKLGNYR INGRTKAMVA CYPGNGTGYV RHVDNPNNGDG RCVTCIYYLN KDWDKAVSSG ILRIFPEGKA QFADIEPKFD RLLFFWSDRR NPHEVQPAYA TRYAITVWYF DADERARAKV KYLTGEGKVR VELKPNSVSK DV
<b>Source</b>	E.coli
<b>Target Names</b>	Egln1
<b>Protein Names</b>	Recommended name: Egl nine homolog 1 EC= 1.14.11.29 Alternative name(s): Hypoxia-inducible factor prolyl hydroxylase 2 Short name= HIF-PH2 Short name= HIF-prolyl hydroxylase 2 Short name= HPH-2 Prolyl hydroxylase do
<b>Expression Region</b>	1-222
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3).
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.