Recombinant Rat Egl nine homolog 1 (Egln1)

Product Code	CSB-YP007481RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P59722
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MNKHGICVVD DFLGRETGQQ IGDEVRALHD TGKFTDGQLV SQKSDSSKDI RGDKITWIEG KEPGCETIGL LMSSMDDLIR HCSGKLGNYR INGRTKAMVA CYPGNGTGYV RHVDNPNGDG RCVTCIYYLN KDWDAKVSGG ILRIFPEGKA QFADIEPKFD RLLFFWSDRR NPHEVQPAYA TRYAITVWYF DADERARAKV KYLTGEKGVR VELKPNSVSK DV
Source	Yeast
Target Names	Egln1
Protein Names	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
Expression Region	1-222
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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).
Reconstitution	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.
Shelf Life	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.