Recombinant Human PER1 protein, His & T7-tagged

Cat. No. PER1-1923H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PER1 aa. (Ile208~Gln414 (Accession # O15534)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile208~Gln414
Description	This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers. Alternative splicing has been observed in this gene; however, these variants have not been fully described.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.8kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

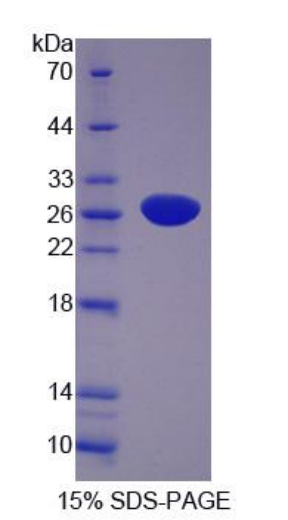
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	9.1

GENE INFORMATION

Gene Name	PER1 period circadian regulator 1 [Homo sapiens (human)]
Official Symbol	PER1
Synonyms	PER1; period circadian regulator 1; PER; hPER; RIGUI; period circadian protein homolog 1; Period, drosophila, homolog of; circadian clock protein PERIOD 1; circadian pacemaker protein RIGUI; hPER1; period circadian clock 1; period homolog 1
Gene ID	5187
mRNA Refseq	NM_002616.2

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Protein Refseq	NP_002607.2
UniProt ID	O15534
SDS-PAGE	

15% SDS-PAGE

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