

Recombinant Rat Per2 protein, His & T7-tagged

Cat. No. Per2-1924R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Per2 aa. (Ile179~Pro436 (Accession # Q9Z301)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Ile179~Pro436
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 and have been linked to sleep disorders.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	8.7

GENE INFORMATION

Gene Name	Per2 period circadian clock 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Per2
Synonyms	Per2; period circadian clock 2; rPER2; period circadian protein homolog 2; circadian clock protein PERIOD 2
Gene ID	63840
mRNA Refseq	NM_031678.1
Protein Refseq	NP_113866.1

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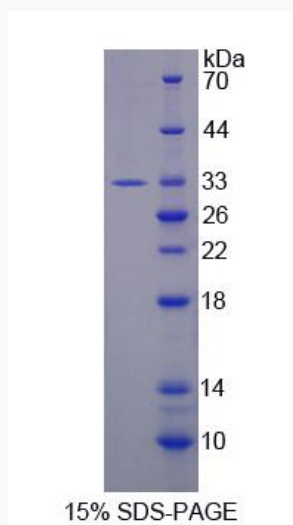
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UniProt ID

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SDS-PAGE

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