

Recombinant Human PER3 Protein, His-tagged

Cat. No. PER3-2577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PER3 Protein (Arg901-Cys1201) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg901-Cys1201
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 have been linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.3 kDa Accurate Molecular Mass: \
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PER3 period homolog 3 (Drosophila) [Homo sapiens (human)]
Official Symbol	PER3
Synonyms	PER3; period homolog 3 (Drosophila); period (Drosophila) homolog 3; period circadian protein homolog 3; hPER3; period 3; period circadian protein 3; growth-inhibiting protein 13; circadian clock protein PERIOD 3; cell growth-inhibiting gene 13 protein; GIG13;
Gene ID	8863

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mRNA Refseq	NM_016831
Protein Refseq	NP_058515
MIM	603427
UniProt ID	P56645

