

Recombinant Human CRY1, His-tagged

Cat. No. CRY1-11596H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRY1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	236-586a.a.
Description	This gene encodes a flavin adenine dinucleotide-binding protein that is a key component of the circadian core oscillator complex, which regulates the circadian clock. The encoded protein is widely conserved across plants and animals. Loss of the related gene in mouse results in a shortened circadian cycle in complete darkness.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	CRY1 cryptochrome 1 (photolyase-like) [Homo sapiens]
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Official Symbol	CRY1
Synonyms	CRY1; cryptochrome 1 (photolyase-like); PHLL1; cryptochrome-1; photolyase-like cryptochrome 1;
Gene ID	1407
mRNA Refseq	NM_004075
Protein Refseq	NP_004066
MIM	601933
UniProt ID	Q16526
Chromosome Location	12q23-q24.1
Pathway	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem;
Function	NOT DNA (6-4) photolyase activity; DNA binding; blue light photoreceptor activity; NOT deoxyribodipyrimidine photo-lyase activity; double-stranded DNA binding; nucleotide binding; protein binding; protein binding transcription factor activity; protein kin