

Recombinant Human CRY1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRY1-2082H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRY1 MS Standard C13 and N15-labeled recombinant protein (NP_004066) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. 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 associated with altered sleep patterns. 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.
Molecular Mass	66.4 kDa
AA Sequence	MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCVYILDPWFAGSSNVGINRWRFL QCLEDLDANLRKLNLSRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEPFGERDAAIK KLATEAGVEVIVRISHTLYDLDKIIELNNGQPPLTYKRFQTLISKMEPLEIPVETITSEVI EKCTTPLSDDHDEKYGVPSSLEELGFDTDGLSSAVWPGGETEALTRLERHLERKAWV ANFERPRMNANSLLASPTGLSPYLRFGLSCRLFYFKLTDLYKKVKKNSSPPLSLYG

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QLLWREFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRGTGFPWIDAIM
 TQLRQEGWIIHLARHAVACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSWMW
 LSCSSFFQQFFHCYCPVGFGRRTPNGDYIRRYLPVLRGFPAKYIYDPWNAPEGIQ
 KVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYRGLGLLASVPSNPNGNG
 GFMGYSAENIPGCSSSGSCSQSGILHYAHGDSQQTHLLKQGRSSMGTGLSGGKR
 PSQEEDTQSIGPKVQRQSTNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CRY1 cryptochrome circadian regulator 1 [Homo sapiens (human)]

Official Symbol CRY1

Synonyms CRY1; cryptochrome 1 (photolyase-like); PHLL1; cryptochrome-1; photolyase-like cryptochrome 1;

Gene ID 1407

mRNA Refseq NM_004075

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Protein Refseq NP_004066

MIM 601933

UniProt ID Q16526

SDS-PAGE



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