

Recombinant Human CRY1 Protein, GST-tagged

Cat. No. CRY1-1922H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CRY1 full-length ORF (AAH30519, 1 a.a. - 586 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jan 2014]
Molecular Mass	90.20 kDa
AA Sequence	MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCVYILDPWFAGSSNVGINRWRFL QCLEDLDANLRKLNSRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEPFGERDAAIK KLATEAGVEVIVRISHTLYDLDKIIELNQGQPPLTYKRFQTLISKMEPLEIPVETITSEVI EKCTTPLSDDHDEKYGVPSLEELGFDTDGLSSAVWPGGETEALTRLERHLERKAWV ANFERPRMNANSLASPTGLSPYLRFGLSCRLFYFKLTDLYKKVKKNSSPPLSLYG QLLWREFFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRTGFPWIDAIM

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TQLRQEGWIIHLARHAVACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSWMW
LSCSSFFQQFFHCYCPVGFGRRTPNGDYIRRYLPVLRGFPAKIYDPWNAPEGIQ
KVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYRGLGLLASVPSNPNGNG
GFMGYSAENIPGCSSSGSCSQSGILHYAHGDSQQTHLLKQGRSSMGTLSSGGKR
PSQEEDTQSIGPKVQRQSTN

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION**Gene Name**

CRY1 cryptochrome 1 (photolyase-like) [Homo sapiens]

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

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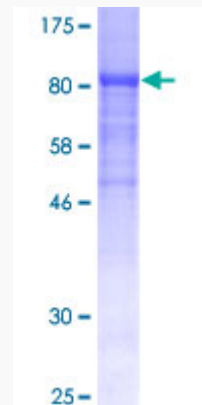
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MIM 601933

UniProt ID Q16526

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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