

Product datasheet for PH307152

Cryptochrome I (CRY1) (NM_004075) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CRY1 MS Standard C13 and N15-labeled recombinant protein (NP_004066)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207152
Predicted MW:	66.4 kDa
Protein Sequence:	>RC207152 protein sequence Red=Cloning site Green=Tags(s)

MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCYVYILDWPFAGSSNVGINRWRFLQCLELDANLRKLN
SRLFVIRGQPADVFPRLFKEWNIKLSIEYDSEPFGKERDAAIKKLATEAGVEVIVRISHTLYDLDKIIE
LNGGQPPLTYKRFQTLISKMEPLEIPVETITSEVIEKCTTPLSDDHDEKYGVPSLEELGFDTDGLSSAVW
PGGETEALTRLERHLERKAWVANFERPRMNANLLASPTGLSPYLRFGCLSCRLFYFKLTDL YKKVKKNS
SPPLSLYGQLLWREFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRGTFPWIDAIMTQLRQE
GWIHHLARHAVACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSMMWLSGSSFFQQFFHCYCPVGFGR
RTDPNGDYIRRYLPVLRGFPKAYIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQ
LSRYRGLGLLASVPSNPNGNGGFMGYSAENIPGCSSSGSCSQGSGILHYAHGDSQQTHLLKQGRSSMTG
LSGGKRPSQEEDTQSIGPKVQRQSTN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004066
RefSeq Size:	3310
RefSeq ORF:	1758



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Synonyms: DSPD; PHLL1

Locus ID: 1407

UniProt ID: [Q16526](#), [A2I2P0](#)

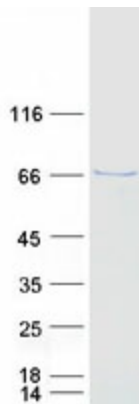
Cytogenetics: 12q23.3

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Circadian rhythm - mammal

Product images:



Coomassie blue staining of purified CRY1 protein (Cat# [TP307152]). The protein was produced from HEK293T cells transfected with CRY1 cDNA clone (Cat# [RC207152]) using MegaTran 2.0 (Cat# [TT210002]).