

Product datasheet for TP307152

Cryptochrome I (CRY1) (NM_004075) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cryptochrome 1 (photolyase-like) (CRY1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207152 protein sequence Red =Cloning site Green =Tags(s)
	<p>MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCVYILDPFAGSSNVGINRWRFLQCLEDLDANLRKLN</p> <p>SRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEFPFGKERDAAIKKLATEAGVEVIVRISHTLYDLDKIIE</p> <p>LNGGQPPLTYKRFQTLISKMEPLEIPVETITSEVIEKCTTPLSDDHDEKYGVPSLEELGFDDGLSSAVW</p> <p>PGGETEALTRLERHLERKAWVANFERPRMNANSLLASPTGLSPYLRFGCLSCRLFYFKLTDLYKKVKKNS</p> <p>SPPLSLYGQLLWREFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRTGFPWIDAIMTQLRQE</p> <p>GWIHHLARHAVACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSWMWLSCSSFFQFFHCYCPVGFGR</p> <p>RTDPNGDYIRRYLPVLRGFPKAYIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQ</p> <p>LSRYRGLGLLASVPSNPNGNGGFMGYSAENIPGCSSSGSCSQSGILHYAHGDSQQTHLLKQGRSSMGTG</p> <p>LSGGKRPSQEEDTQSIGPKVQRQSTN</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	66.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004066
Locus ID:	1407
UniProt ID:	Q16526
RefSeq Size:	3310
Cytogenetics:	12q23.3
RefSeq ORF:	1758
Synonyms:	DSPD; PHLL1
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]).