

Recombinant Human Crystallin, Mu, His-tagged

Cat. No. CRYM-2493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CRYM, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 35.9 kDa (334aa).
Species	Human
Source	E.coli
Description	Crystallin mu, also known as CRYM, is a member of the crystallin protein family. Crystallins are separated into two classes, taxon-specific and ubiquitous. This gene encodes a taxon-specific crystallin protein. The human CRYM gene maps to chromosome 16p13.11, and encodes a protein that is expressed in neural tissue, muscle, and kidney. Unlike other crystallins, CRYM does not perform a structural role in lens tissue, but rather it binds NADPH and thyroid hormone, which indicates that it may have other regulatory or developmental functions.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSRVPFLSA AEVEEHLRSS SLLIPPLETA LANFSSGPEG GVMQPVRTVV PVTKHRGYLG VMPAYSAAED ALTTKLVTFY EDRGITSVVP SHQATVLLFE PSNGTLLAVM DGNVITAKRT AAVSAIATKF

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LKPPSSEVLC ILGAGVQAYS HYEIFTEQFS FKEVRIWNRT KENAEKFADT
 VQGEVRCSS VQEAVAGADV IITVTLATEP ILFGWVKPG AHINAVGASR
 PDWRELDDEL MKEAVLYVDS QEAALKESGD VLLSGAEIFA ELGEVIKGVK
 PAHCEKTTVF KSLGMAVEDT VAAKLIYDSW SSGK.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

CRYM crystallin, mu [Homo sapiens]

Synonyms

crystallin, mu; THBP; DFNA40; CRYM; mu-crystallin homolog;
 OTTHUMP00000115878; NADP-regulated thyroid-hormone binding protein; NADP-
 regulated thyroid-hormone-binding protein

Gene ID

1428

mRNA Refseq

NM_001014444

Protein Refseq

NP_001014444

MIM

123740

UniProt ID

Q14894

**Chromosome
Location**

16p13.11-p12.3

Function

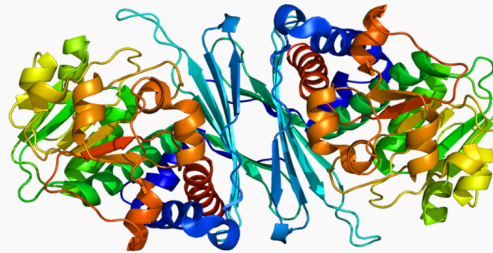
NADP or NADPH binding; catalytic activity; protein homodimerization activity; thyroid hormone binding; transcription corepressor activity

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