

Recombinant Human CRYM, His-tagged

Cat. No. CRYM-30256TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human mu Crystallin with N terminal His tag; 334 amino acids with tag, MWt 35.9kDa.
Species	Human
Source	E.coli
ProteinLength	1 amino acids
Description	<p>Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Mutations in this gene have been associated with autosomal dominant non-syndromic deafness. Multiple alternatively spliced transcript variants have been found for this gene.</p>
Conjugation	HIS
Molecular Weight	35.900kDa inclusive of tags
Tissue specificity	Expressed in neural tissue, muscle and kidney.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	<p>MGSSHHHHHH SSGLVPRGSH MSRVPAFLSA AEVEEHLRSS SLLIPPLETA LANFSSGPEG GVMQPVRTVV PVTKHRGYLG VMPAYSAAED ALTTKLVTFY EDRGITSVVP SHQATVLLFE PSNGTLLAVM DGNVITAKRT AAVSAIATKF LKPPSSEVLC ILGAGVQAYS HYEIFTEQFS FKEVRIWNRT KENAEKFADT VQGEVRVCSS VQEAVAGADV IITVTLATEP ILFGEWVKPG AHINAVGASR PDWRELDDEL MKEAVLYVDS QEAALKESGD VLLSGAEIFA ELGEVIKGVK PAHCEKTTVF KSLGMAVEDT VAAKLIYDSW SSGK</p>
Sequence Similarities	Belongs to the ornithine cyclodeaminase family.
GENE INFORMATION	
Gene Name	CRYM crystallin, mu [Homo sapiens]
Official Symbol	CRYM
Synonyms	CRYM; crystallin, mu; thiomorpholine-carboxylate dehydrogenase; DFNA40;
Gene ID	1428
mRNA Refseq	NM_001014444

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Protein Refseq	NP_001014444
MIM	123740
Uniprot ID	Q14894
Chromosome Location	16p
Function	NADP binding; oxidoreductase activity; protein homodimerization activity; thiomorpholine-carboxylate dehydrogenase activity; thyroid hormone binding;

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