

Recombinant Human CRYM, GST-tagged

Cat. No. CRYM-11608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYM protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-314a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CRYM crystallin, mu [Homo sapiens]
Official Symbol	CRYM
Synonyms	CRYM; crystallin, mu; thiomorpholine-carboxylate dehydrogenase; DFNA40; ketimine reductase; mu-crystallin homolog; NADP-regulated thyroid-hormone binding protein; THBP;
Gene ID	1428
mRNA Refseq	NM_001014444
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; thyroid hormone binding; transcription corepressor activity;

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