
Product Data Sheet

Product Name: CRYM Human
 Cat. No.: GP23243
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Crystallin Mu; Thiomorpholine-Carboxylate Dehydrogenase; THBP; NADP-Regulated Thyroid-Hormone Binding Protein; NADP-Regulated Thyroid-Hormone-Binding Protein; Mu-Crystallin Homolog; EC 1.5.1.25; DFNA40; CRYM.		
Amino Acid Sequence	MKHHHHHHAS RVP AFLSAAE VEEHLRSSL LIPPLETALA NFSSGPEGGV MQPVRTVVPV TKHRGYLGVM PAYSAAEDAL TTKLVTFYED RGITSVPSH QATVLLFEPS NGTLLAVMDG NVITAKRTAA VSAIATKFLK PPSSEVLCIL GAGVQAYSHY EIFTEQFSFK EVRIWNRTKE NAEKFADTVQ GEVRCSSVQ EAVAGADVII TVTLATEPIL FGEWVKPGAH INAVGASRPD WRELDDELMK EAVLYVDSQE AALKESGDVL LSGAEIFAEL GEVIKGVKPA HCEKTTVFKS LGMAVEDTVA AKLIYDSWSS GK.		
Solubility	It is recommended to add 200?l of deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. CRYM is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	CRYM was filtered (0.4µm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.		

Introduction

Crystallin, Mu (CRYM) is a taxon-specific crystallin protein which binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. CRYM doesn't perform a structural role in lens tissue; instead CRYM binds thyroid hormone for possible regulatory or developmental roles. CRYM gene mutations are linked with autosomal dominant non-syndromic deafness. CRYM specifically catalyzes the reduction of imine bonds in brain substrates which may include cystathionine ketamine and lanthionine ketamine.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

CRYM Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Ser2-Lys314) containing 322 amino acids including a 9 aa His tag at N-terminus. The total calculated molecular mass is 34.8kDa.

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