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32-13172: CRYM Human

Alternative Name :	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.

Description

Source: Escherichia Coli.
Filtered White lyophilized (freeze-dried) powder.
Crystallin, Mu (CRYM) is a taxon-specific crystallin protein which binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. CRYM doesnÂ'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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	CRYM was filtered (0.4µm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5. It is recommended to add 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.
Storage condition :	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.
Amino Acid :	MKHHHHHHAS RVPAFLSAAE VEEHLRSSSL LIPPLETALA NFSSGPEGGV MQPVRTVVPV TKHRGYLGVM PAYSAAEDAL TTKLVTFYED RGITSVVPSH QATVLLFEPS NGTLLAVMDG NVITAKRTAA VSAIATKFLK PPSSEVLCIL GAGVQAYSHY EIFTEQFSFK EVRIWNRTKE NAEKFADTVQ GEVRVCSSVQ EAVAGADVII TVTLATEPIL FGEWVKPGAH INAVGASRPD WRELDDELMK EAVLYVDSQE AALKESGDVL LSGAEIFAEL GEVIKGVKPA HCEKTTVFKS LGMAVEDTVA AKLIYDSWSS GK.