

Recombinant human PDE6H protein

Catalog Number: ATGP2785

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-83aa

UniProt No.

Q13956

NCBI Accession No.

NP_006196

Alternative Names

Retinal cone rhodopsin-sensitive cGMP 3'5'-cyclic phosphodiesterase subunit gamma, Retinal cone rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma, ACHM6, RCD3

PRODUCT SPECIFICATION

Molecular Weight

11.5 kDa (106aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT, 0.1mM PMSF

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PDE6H is the inhibitory (or gamma) subunit of the cone-specific cGMP phosphodiesterase, which is a tetramer composed of two catalytic chains (alpha and beta), and two inhibitory chains (gamma). It is specifically expressed in the retina, and is involved in the transmission and amplification of the visual signal. Mutations in this gene are associated with retinal cone dystrophy type 3A (RCD3A). Recombinant human PDE6H protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

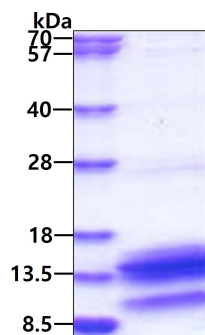
<MGSSHHHHHH SSGLVPRGSH MGS>MSDNTTL PAPASNQGPT TPRKGPPKFK QRQTRQFKSK PPKKGVKGFG
DDIPGMEGLG TDITVICPWE AFSHLELHEL AQFGII

General References

Shimizu-Matsumoto A., et al. (1996) Genomics 32:121-124.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.