

Recombinant human PDE6D protein

Catalog Number: ATGP0553

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-150aa

UniProt No.

O43924

NCBI Accession No.

NP_002592

Alternative Names

Retinal rod rhodopsin-sensitive cGMP 3'5'-cyclic phosphodiesterase subunit delta, PDED, Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit delta, phosphodiesterase 6D, cGMP-specific, rod, delta

PRODUCT SPECIFICATION

Molecular Weight

18.4 kDa (158aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl

Purity

> 90% 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

Human PDE6D was originally identified as a fourth subunit of rod-specific cGMP phosphodiesterase, PDE6. Catalytically active PDE6 is a heterodimer (alphabeta) that is regulated by two inhibitory gamma subunits. As PDE6D does not modify the catalytic properties of PDEalphabeta, its function is still unresolved. Recombinant human PDE6D, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MSAKDERARE ILRGFKLNWM NLRDAETGKI LWQGTEDLSV PGVEHEARVP KKILKCKAVS RELNFSSTEQ MEKFRLEQKV
YFKGQCLEEW FFEFGFVIPN STNTWQSLIE AAPESQMMPA SVLTGNVIE TKFFDDDLLV STSRVRLFYV <GSHHHHHH>

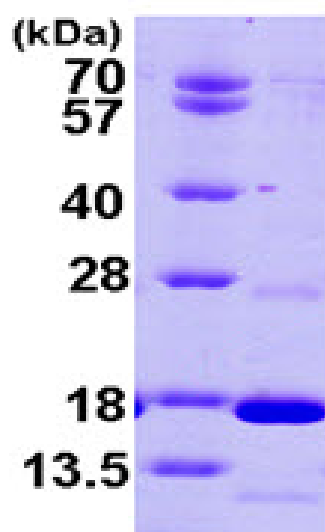
General References

Zhang H., et al, (2007) Proc Natl Acad Sci U S A. 104(21):8857-62.

Dekomien., G. et al. (2003) Genet Sel Evol. 35(4):445-56.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)