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PDE6D Human

Catalog #:ENPS-490

For research use only.

Description:PDE6D produced in E.Coli is a single, non-glycosylated polypeptide chain containing 158 amino acids (1-150 a.a.) and having a molecular mass of 18.4kDa. PDE6D is fused to an 8 amino acids His Tag at C-terminus and purified by proprietary chromatographic techniques.

Synonyms: Retinal rod rhodopsin-sensitive cGMP 3",5"-cyclic phosphodiesterase subunit delta,Phosphodiesterase 6D cGMP-Specific Rod Delta, GMP-PDE delta, Protein p17, PDE6D, PDED.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MSAKDERARE ILRGFKLNWM NLRDAETGKI LWQGTEDLSV PGVEHEARVP KKILKCKAVS RELNFSSTEQ MEKFRLEQKV YFKGQCLEEW FFEFGFVIPN STNTWQSLIE AAPESQMMPA SVLTGNVIIE TKFFDDDLLV STSRVRLFYV GSHHHHHH.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The PDE6D protein solution contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 1mM DTT and 100mM NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Human PDE6D was initially identified as a fourth subunit of rod-specific cGMP phosphodiesterase, PDE6. PDE6D is an Oligomer composed of two catalytic chains (alpha and beta), an inhibitory chain (gamma) and the delta chain. PDE6D interacts with RPGR, ARL2 and ARL3. The catalytically active PDE6 is a heterodimer () that is controlled by two inhibitory subunits. Since PDE6D does not change the catalytic properties of PDE, its function is still unanswered. PDE6D is expressed specifically in the retina.

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