
Product Data Sheet

Product Name: PDE6D Human
 Cat. No.: GP22055
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MSAKDERARE ILRGFKLNWM NLRDAETGKI LWQGTEDLSV PGVEHEARVP KKILKCKAVS RELNFSSTEQ MEKFRLEQKV YFKGQCLEEW FFEFGFVIPN STNTWQSLIE AAPESQMMPA SVLTGNVIE TKFFDDDLLV STSRVRLFYV GSHHHHHH.		
Formulation	The PDE6D protein solution contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 1mM DTT and 100mM NaCl.		

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 ($\alpha\beta$) that is controlled by two inhibitory γ subunits. Since PDE6D does not change the catalytic properties of PDE $\alpha\beta$, its function is still unanswered. PDE6D is expressed specifically in the retina.

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.

Background

PDE6D produced in E.Coli is a single, non-glycosylated polypeptide chain containing 158

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

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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.

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