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## Product Data Sheet

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Product Name: PDE6H Human  
 Cat. No.: GP22056  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphodiesterase 6H; CGMP-Specific; Cone; Gamma; RetinalCone Rhodopsin-Sensitive CGMP 3';5'-Cyclic Phosphodiesterase; Subunit Gamma; EC3.1.4.35; EC 3.1.4.17; RCD3; GMP-PDE Gamma; ACHM6; PDE6H.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSDNTTL PAPASNQGPT TPRKGPPKFK QRQTRQFKSK PPKKGVKGFDDIPGMEGLG TDITVICPWE AFSHLELHEL AQFGII.		
Formulation	PDE6H protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol, 2mM DTT and 0.1mM PMSF.		

### Introduction

PDE6H belongs to the rod/cone cGMP-PDE gamma subunit family, which selectively catalyze the hydrolysis of 3 cyclic phosphate bonds in adenosine and/or guanine 3,5 cyclic monophosphate (cAMP and/or cGMP). This family regulates the cellular levels, localization and duration of action of these second messengers by controlling the rate of their degradation. 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). PDE6H is particularly expressed in the retina, and is implicated in the transmission and amplification of the visual signal. Mutations in PDE6H have been associated with retinal cone dystrophy type 3A.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PDE6H Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 106 amino acids (1-83 a.a) and having a molecular mass of 11.5 kDa. PDE6H is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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