

Recombinant Full Length Human PDE6A Protein, His tagged

Cat. No. PDE6A-10HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), full length, with N-terminal His tag, expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-860 aa
Description	This gene encodes the cyclic-GMP (cGMP)-specific phosphodiesterase 6A alpha subunit, expressed in cells of the retinal rod outer segment. The phosphodiesterase 6 holoenzyme is a heterotrimer composed of an alpha, beta, and two gamma subunits. cGMP is an important regulator of rod cell membrane current, and its dynamic concentration is established by phosphodiesterase 6A cGMP hydrolysis and guanylate cyclase cGMP synthesis. The protein is a subunit of a key phototransduction enzyme and participates in processes of transmission and amplification of the visual signal. Mutations in this gene have been identified as one cause of autosomal recessive retinitis pigmentosa.
Molecular Mass	99.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Note	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea
Concentration	>0.05 µg/µL as determined by microplate BCA method
Shipping	Dry Ice

GENE INFORMATION

Gene Name	PDE6A phosphodiesterase 6A, cGMP-specific, rod, alpha [Homo sapiens (human)]
Official Symbol	PDE6A
Synonyms	PDE6A; phosphodiesterase 6A, cGMP-specific, rod, alpha; PDEA; rod cGMP-specific 3,5-cyclic phosphodiesterase subunit alpha; PDE V-B1; GMP-PDE alpha; cGMP phosphodiesterase alpha subunit; rod photoreceptor cGMP phosphodiesterase alpha subunit; RP43; CGPR-A;
Gene ID	5145
mRNA Refseq	NM_000440
Protein Refseq	NP_000431
MIM	180071
UniProt ID	P16499

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SDS-PAGE