

Recombinant Human PDE5A, His-tagged

Cat. No. PDE5A-476H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDE5A, fused with at the C-terminus to a His-tag, was expressed in Sf9 insect cells.
Species	Human
Source	Sf9 Cells
Description	This gene encodes a cGMP-binding, cGMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family. This phosphodiesterase specifically hydrolyzes cGMP to 5'-GMP. It is involved in the regulation of intracellular concentrations of cyclic nucleotides and is important for smooth muscle relaxation in the cardiovascular system. Alternative splicing of this gene results in three transcript variants encoding distinct isoforms.
Form	Liquid. In 50mM triethanolamine, pH 7.4, containing 1mM DTT, 100mM NaCl, 20% glycerol.
Purity	≥95%
Stability	Avoid freeze/thaw cycles.
Storage	-80°C

GENE INFORMATION

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Gene Name	PDE5A phosphodiesterase 5A, cGMP-specific [Homo sapiens (human)]
Official Symbol	PDE5A
Synonyms	PDE5A; phosphodiesterase 5A, cGMP-specific; CN5A; PDE5; PDE5A1; CGB-PDE; cGMP-binding cGMP-specific 3",5"-cyclic nucleotide phosphodiesterase; EC 3.1.4.35; cGMP-binding cGMP-specific phosphodiesterase; phosphodiesterase 5A; cGMP-specific 3",5"-cyclic phosphodiesterase
Gene ID	8654
mRNA Refseq	NM_001083
Protein Refseq	NP_001074
MIM	603310
UniProt ID	O76074
Chromosome Location	4q27
Pathway	Nitric oxide stimulates guanylate cyclase; Purine metabolism; cGMP-PKG signaling pathway
Function	3",5"-cyclic-GMP phosphodiesterase activity; cGMP binding; metal ion binding

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