

Phosphodiesterase 5A1 from Human, Recombinant

Cat. No. NATE-0527

Lot. No. (See product label)

Introduction

Description PDE5 regulates vascular smooth muscle contraction and is involved in NO-cGMP

signaling in platelets to control aggregation. PDE5 may also be involved in the regulation of cGMP signaling in the brain and may modulate pressure-induced

cardiac hypertrophy and fibrosis.

Applications Phosphodiesterase (PDE) is an enzyme that is used to breaks phosphodiester

bonds. PDE5 is a molecular target for the treatment of erectile dysfunction and $% \left(1\right) =\left(1\right) \left(1\right) \left$

pulmonary hypertension. PDE5 is used to find novel PDE5 inhibitors.

Synonyms CN5N; phosphodiesterase 5A, cGMP-specific; PDE5A1; PDE5A; 3',5'-cyclic-GMP

phosphodiesterase, PDE 5A1

Product Information

Species Human

Source Sf9 cells

Form Supplied as a solution in 20% glycerol containing 40 mM Tris-HCl, pH 8.0, 110 mM

NaCl, 2.2 mM KCl, 0.04% TWEEN 20 and 3 mM DTT

Molecular Weight 126 kDa

Pathway Hemostasis, organism-specific biosystem; Nitric oxide stimulates guanylate

cyclase, organism-specific biosystem; Platelet homeostasis, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism,

conserved biosystem; cGMP effects, organism-specific biosystem

Function 3,5-cyclic-GMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase

activity; cGMP binding; hydrolase activity; metal ion binding; nucleotide binding;

zinc ion binding

Unit Definition One unit will convert 1.0 picomole of 3',5'-cGMP to 5'-GMP per minute at pH 7.4 at

37°C.

Storage and Shipping Information

Storage -70°C

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