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Datasheet for ABIN7317497 PDE9A Protein (His tag)

Overview

Quantity:	100 µg
Target:	PDE9A
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE9A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PDE9A Protein (His Tag)
Sequence:	Pro 181-Lys 506
Characteristics:	A DNA sequence encoding the human PDE9A (O76083-2) C-terminal segment (Pro 181-Lys 506) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	PDE9A
Alternative Name:	PDE9A (PDE9A Products)
Background:	Background: High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A; also known as PDE9A; is a member of the cyclic nucleotide phosphodiesterase family and PDE9 subfamily. PDE9A is expressed in all tissues examined (testis; brain; small intestine; skeletal muscle; heart; lung; thymus; spleen; placenta; kidney; liver; pancreas; ovary and prostate) except blood.

Target Details

Highest levels of PDE9A is in brain; heart; kidney; spleen; prostate and colon.

Isoform PDE9A12 is found in prostate. PDE9A mRNA is widely distributed throughout the rat and mouse brain; with the highest expression observed in cerebellar Purkinje cells. PDE9A is the only cGMP-specific PDE with significant expression in the forebrain; and as such is likely to play an important role in NO-cGMP signaling. PDE9A is highly conserved between species and is widely distributed throughout the rodent brain. PDE9A is probably involved in maintenance of low cGMP levels in cells and might play an important role in a variety of brain functions involving cGMP-mediated signal transduction. PDE9A hydrolyzes the second messenger cGMP; which is a key regulator of many important physiological processes. PDE9A represents a novel drug target worthy of further study.

Synonym: HSPDE9A2

Molecular Weight:	40 kDa
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, pH 7.4
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Storage:	4 °C, -20 °C, -80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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