Datasheet for ABIN7317496

PDE9A Protein (GST tag,His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	PDE9A
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE9A protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human PDE9A Protein (His & GST Tag)
Sequence:	Met 1-Ala 533
Characteristics:	A DNA sequence encoding the full length of human PDE9A (O76083-2) (Met 1-Ala 533) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

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;

Target Details

	lung; thymus; spleen; placenta; kidney; liver; pancreas; ovary and prostate) except blood. 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:	89.5 kDa

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 5 mM GSH, pH 7.4, 10 % gly
Storage:	4 °C,-20 °C,-80 °C
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.