

Product Information

MemDX™ Membrane Protein Human PDE3A (Phosphodiesterase 3A) Full Length

Cat. No.: **MPC3507K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human PDE3A membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

PDE3A

Protein Length

Full length

Protein Class

Receptor

TMD

6

Sequence

MAVPGDAARVRDKPVHSGVVSQAPTAGRDCCHRADPASPRDSGCRGCWGD
VLQPLRSSRKLSSALCAGSLSFLLALLVRLVRGEVGCLEQCKEAAAAEE
EEAAPGAEGGVFPGRGGAPGGGARLSPWLQPSALLFSLLCAFFWMGLYL
LRAGVRLPLAVALLAACCGGEALVQIGLVGEDHLLSLPAAGVVLSCLA
ATWLVLRLRLGVLMIALTSAVRTVSLISLERFKVAWRPYLAYLAGVLGIL
LARYVEQILPQSAEAPREHLGSQLIAGTKEDIPVFKRRRRSSSVSAEM
SGCSSKSHRRTSIPCIPREQLMGHSEWDHKGPRGSQSSGTSITVDIAVM
GEAHLITDLLADPSLPPNVCTSLRAVSNLLSTQLTFQAIHKPRVNPVTS
LSENYTCSDSEESSEKDKLAIPKRLRRSLPPGLLRVSSTWTTTTSATGL
PTLEPAPVRRDRSTSIKLQEAPSSSPDSWNNPVMMLTKSRSFTSSYAIS
AANHVKAKKQSRPGALAKISPLSSPCSSPLQGTASSLVSKISAVQFPES
ADTTAKQSLGSHRALTYTQSAPDLSPQILTPVICSSCGRPYSQGNPADE
PLERSGVATRTPSRDDTAQVTSYETNNNSDSSDIVQNEDETECLREPL
RKASACSTYAPETMMFLDKPILAPEPLVMDNLDSEIMQLNTWNFIPIFDLV
ENIGRKCGRILSQVSYRLFEDMGLFEAFKIPIREFMNYFHALEIGYRDIP
YHNRIHATDVLHAVWYLTTQPIPLSTVINDHGSTSDSDSDSGFTTHGHMG
YVFSKTYNVTDDKYGCLSGNIPALELMALYVAAAMHDYDHPGRTNAFLVA
TSAPQAVLYNDRSVLENHHAAAAWNLFMRSRPEYNFLNLDHVEFKHFRFL
VIEAILATDLKKHFDVFAKFNGKVNDDVGIDWTNENDRLLVCQMCIKLAD
INGPAKCKELHLQWTDGIVNEFYEQGDEEASLGLPISPFMDRSAPQLANL
QESFISHIVGPLCNSYDSAGLMPGKWVEDSDESGDTPDPEEEEEEEAPAPN
EEETCENNESPCKKTFKRRKIYQCITQHLLQNHKMWKKVIEEEQRLAGIE
NQSLDQTPQSHSSEIQAIKEEEEEKKGKPRGEEIPTQKPDQ

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PDE3A

Full Name

Phosphodiesterase 3A

Introduction

This gene encodes a member of the cGMP-inhibited cyclic nucleotide phosphodiesterase (cGI-PDE) family. cGI-PDE enzymes hydrolyze both cAMP and cGMP, and play critical roles in many cellular processes by regulating the amplitude and duration of intracellular cyclic nucleotide signals. The encoded protein mediates platelet aggregation and also plays important roles in cardiovascular function by regulating vascular smooth muscle contraction and relaxation. Inhibitors of the encoded protein may be effective in treating congestive heart failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Alternative Names

PDE3A; HTNB; CGI-PDE; CGI-PDE A; CGI-PDE-A; cGMP-inhibited 3',5'-cyclic phosphodiesterase A; cAMP phosphodiesterase, myocardial cGMP-inhibited; cyclic GMP-inhibited phosphodiesterase A; phosphodiesterase 3A, cGMP-inhibited; Phosphodiesterase 3A

Gene ID

[5139](#)

UniProt ID

[Q14432](#)