

Product Information

MemDX™ Membrane Protein Human ADCY5 (Adenylate cyclase 5) Full Length

Cat. No.: **MPC2494K**

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

This product is a made-to-order Human ADCY5 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

ADCY5

Protein Length

Full length

Protein Class

Transporter

TMD

12

Sequence

MSGSKSVSPPGYAAQKTAAPAPRGGPEHRSAGWGEADSRANGYPHAPGGSA
RGSTKKPGGAVTPQQQQRLASRWSDDDDPPLSGDDPLAGGFGFSFRSK
SAWQERGGDDCGRGRSRRQRRGAASGGSTRAPPAGGGGGSAAAAASAGGTE
VRPRSVVEGLEERRGKGRAADELEAGAVEGEGSGDGGSSADSGSGAGPG
AVLSLGACCLALLQIFRSKKFPSDKLERLYQRYFFRLNQSSLTMLMAVLV
LVCLVMLAFHAARPPLQLPYLAVLAAVGVILIMAVLCNRAAFHQDHMGL
ACYALIAVVLAVQVVGLLLPQPRSASEGIWWTVFFIYTIYTLLPVRMRAA
VLSGVLLSALHLAIALRTNAQDQFLKQLVSNVLIFFSCTNIVGVCTHYPA
EVSQRQAFQETRECIQARLHSQRENQQQERLLLSVLPRHVAMEMKADINA
KQEDMMFHKIYIQKHDNVSILFADIEGFTSLASQCTAQELVMTLNELFAR
FDKLAAENHCLRIKILGDCYYCVSGLPEARADHAHCCVEMGMDMIEAISL
VREVTGVNVNMRVGIHSGRVHCGVLGLRKWQFDVWSNDVTLANHMEAGGK
AGRIHITKATLNYLNGDYEVEPGCGGERNAYLKEHSIETFLILRCTQKRK
EEKAMIAKMNRQRTNSIGHNPPHWGAERPFIYHNLGGNQVSKEMKRMGFED
PKDKNAQESANPEDEVDEFLGRAIDARSIDRLRSEHVRKFLITFREPDLE
KKYSKQVDDRFGAYVACASLVFLFICFVQITIVPHSIFMLSFYLTCSLL
TLVVFVSVIYSCVKLFPSPLQTLRSKIVRSKMNSTLVGVFTITLVFLAAF
VNMFTCNRSRDLGCLAQEHNISASQVNACHVAESAVNYSLGDEQGFCGSP
WPNCNFPYFTYSVLLSLLACSVFLQISCIGKLVMLAIELIYVLIVEVP
GVTLFDNADLLVTANAIFFNNGTSQCPEHATKVALKVVTPIISVFLA
LYLHAQQVESTARLDFLWKLQATEEKEEMEELQAYNRRLLHNILPKDVAA
HFLARERNDELYYQSCCEVAVMFASIANFSEFYVELEANNEGVECLRL
NEIIADFDEIISSEDRFRQLEKIKITIGSTYMAASGLNDSTYDKVGKTHIKA
LADFAMKLMDQMKYINEHSFNNFQMKIGLNI GPVVAGVIGARKPQYDIWG

NTVNVASRMDSTGVPDRIQVTTDMYQVLAANTYQLECRGVVKVKGKGEMM
TYFLNGGPPLS

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

ADCY5

Full Name

Adenylate cyclase 5

Introduction

This gene encodes a member of the membrane-bound adenylyl cyclase enzymes. Adenylyl cyclases mediate G protein-coupled receptor signaling through the synthesis of the second messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits. Single nucleotide polymorphisms in this gene may be associated with low birth weight and type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have been observed for this gene.

Alternative Names

ADCY5; AC5; FDFM; adenylate cyclase type 5; ATP pyrophosphate-lyase 5; adenylate cyclase type V; adenylyl cyclase 5; epididymis secretory sperm binding protein; Adenylate cyclase 5

Gene ID

[111](#)

UniProt ID

[O95622](#)