

Voltage Dependent Anion Channel-1

Human, Recombinant (rHuVDAC)

Expressed in *E. coli*

Cat. No. CRP0863

Lot. No. (See product label)

PRODUCT INFORMATION

Description: VDAC forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel allows diffusion of small hydrophilic molecules; it adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has weak anion selectivity whereas the closed state is cation-selective. rh-VDAC is expressed in *E. coli*.

M. W. : 32,039Da

Recombinant: Expressed in *E. coli*

Purity: ≥ 95% by SDS-PAGE.

Storage buffer: Liquid. In 1% Acetic Acid.

FOR RESEARCH USE ONLY

REFERENCES

1. Kayser H, et al. Identification of human porins. II.Characterization and primary structure of a 31-kDa porin from human B lymphocytes (Porin 31HL). *Biol Chem.*1989; 370: 1265-1278.
- 2.Engelhardt H, et al. High-level expression, refolding and probing the natural fold of the human voltage-dependent anion channel isoforms I and II. *J Membr Biol.*2007; 216: 93-105.
- 3.Malia T J, et al.NMR structural investigation of the mitochondrial outer membrane protein VDAC and its interaction with antiapoptotic Bcl-xL. *Biochemistry.*2007; 46: 514-525.
- 4.Verrier F, Mignotte B, Jan G, Brenner C. Study of PTPC composition during apoptosis for identification of viral protein target. *Ann. N. Y. Acad. Sci.* 2004;1010: 126–142.
5. Blachly-Dyson E, Baldini A, Litt M, et al. Human genes encoding the voltage-dependent anion channel (VDAC) of the outer mitochondrial membrane: mapping and identification of two new isoforms. *Genomics.* 1994; 20 (1): 62–67.

GENE INFORMATION

Gene Name: [VDAC1](#)

Synonyms: MGC111064; PORIN; PORIN-31-HL; VDAC; VDAC-1; hVDAC1; Outer mitochondrial membrane protein porin 1; Plasmalemmal porin; Porin 31HL; Porin 31HM; Voltage-dependent anion-selective channel protein 1; voltage-dependent anion channel 1

mRNA Refseq: [NM_003374.1](#)

Protein Refseq: [NP_003365.1](#)

MIM: [604492](#)

GeneID: [7416](#)

Uniprot ID: [P21796](#)

Chromosome Location: 5q31

Pathway: Calcium signaling pathway

Function: protein binding.voltage-gated anion channel activity