

Recombinant Human VDAC1, GST-tagged

Cat. No. VDAC1-18H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human VDAC1, fused with N-terminal GST, was expressed in E. coli.

Species Human

Source E.coli

Description This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Alternate splicing results in multiple transcript variants. Multiple pseudogenes of this gene are found on chromosomes 1, 2, 3, 6, 9, 12, X and Y.

Form 1M PBS (58 mM Na₂HPO₄, 17 mM NaH₂PO₄, 68 mM NaCl, pH8.0), 100 mM GSH and 1% Triton X-100, 15% glycerol.

Bio-activity Not tested

AA Sequence MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGS
LETKYRWTEYGLTFTEKWNTDNTLGTTEITVEDQLARGLKLTFDSSFSPNTGKKNKI
KTGYKREHINLGCDMDFDIAGPSIRGALVLYEGWLAGYQMNFFETAKSRVTQSNFA
VGYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQI
DPDACFSAKVNNSLIIGLYTQTLKPGIKLTL SALLDGKNVNAGGHKLGLEFQA(1-
283aa encoded by BC008482)

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Endotoxin	Please contact the lab for more information.
Stability	Aliquot and store at -20°C to -80°C for up to 6 months. Avoid freeze thaw cycles.
Shipping	The product is shipped with ice packs. Upon receipt, store it immediately at -20°C to -80°C.

GENE INFORMATION

Gene Name	VDAC1 voltage-dependent anion channel 1 [Homo sapiens (human)]
Official Symbol	VDAC1
Synonyms	VDAC1; voltage-dependent anion channel 1; PORIN; VDAC-1; voltage-dependent anion-selective channel protein 1; porin 31HL; porin 31HM; plasmalemmal porin; outer mitochondrial membrane protein porin 1
Gene ID	7416
mRNA Refseq	NM_003374
Protein Refseq	NP_003365
MIM	604492
UniProt ID	P21796
Chromosome Location	5q31
Pathway	Calcium signaling pathway; HTLV-I infection; Huntington's disease; Metabolism of proteins

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Function

porin activity; protein kinase binding; voltage-gated anion channel activity

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