VDAC1 : Voltage-Dependent Anion Channel 1 # D029

Product specification

Acronym: VDAC1
Origin species: Human
Protein reference : P21796 (UniProtKB)
L06132.1 (GenBank)
Family: Anion channel

Expression system: E.coli based CFPS
Format: Detergent
Protein sequence: Met1 - Ala283
Tag : 6xHis tag (N-terminal)
Cleavage site: Factor Xa
Product MW: 30.7kDa
Application: Drug screening & discovery, antibody development, structural biology

Product description

VDAC-1 (Voltaged-Dependent Anion Channel) is a mitochondrial porin located in the outer mitochondrial membrane (OMM). This protein consists of a transmembrane β-barrel with an N-terminal α-helix. VDAC is responsible for the exchange of adenine nucleotides, Ca^{2+} and other metabolites across the mitochondrial membrane. It also has binding sites for glycerol, hexokinase II, creatine kinase and Bcl-2 family members. VDAC plays a central role in the increase of mitochondrial membrane permeability as part of apoptosis.

Recombinant protein sequence

His tag – factor Xa cleavage site -
MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKWNTDNTLGTEIT
VEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWLAGYQMNFETAKSRVTQSNFAVG
YKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLT
LSALLDGKNVNAGGHKLGLGLEFQA

Quality analysis

Purity: > 90% (determined by Coomassie Blue stained SDS-PAGE)

Purification procedure: VDAC-1 is purified using paramagnetic precharged nickel particles. Further purification can be performed if required.

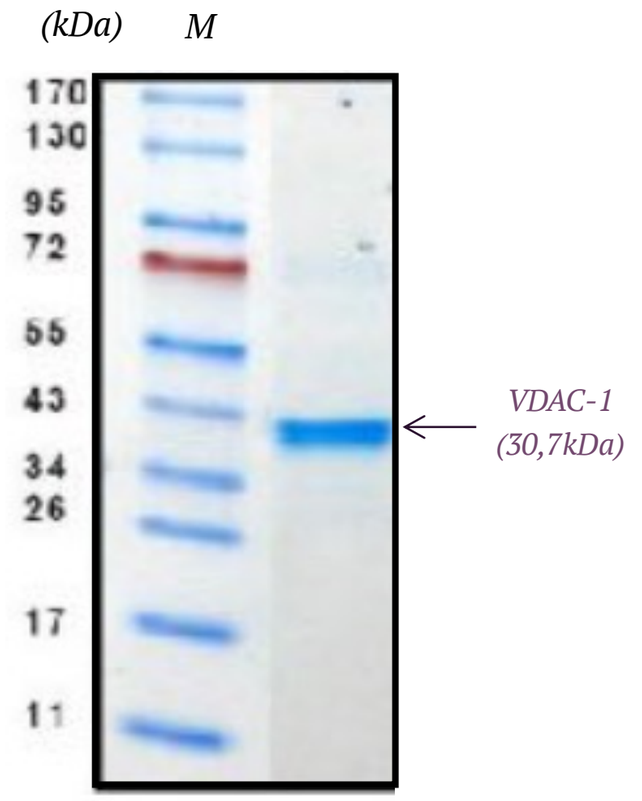


Fig.1: *Identification of VDAC-1 in detergent by Coomassie Blue stained SDS-PAGE.*

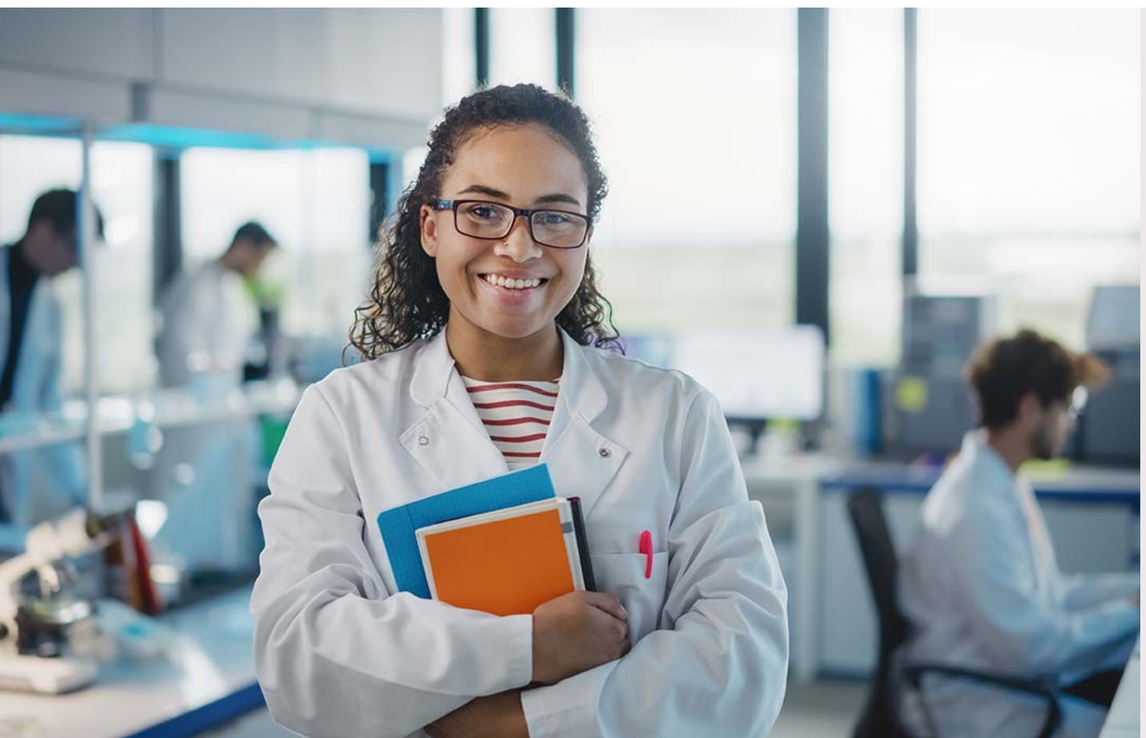
Formulation

Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage.
Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10 µg, 50 µg, 100 µg, customized quantity on request.



Need a specific amount, a quote or any additional information?
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