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# Recombinant human Calcium Activated Nucleotidase 1/CANT1 protein

Catalog Number: ATGP1338

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

63-401aa

#### UniProt No.

Q8WVQ1

#### **NCBI Accession No.**

NP 620148

### **Alternative Names**

Soluble calcium-activated nucleotidase 1, DBQD, SCAN-1, SCAN1, SHAPY

#### PRODUCT SPECIFICATION

## **Molecular Weight**

40.5 kDa (364aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

# **Description**

CANT1 (calcium-activated nucleotidase 1) belongs to the apyrase family. This protein is calcium-dependent nucleotidase with a preference for uDP. The order of activity with different substrates is uDP > GDP > uTP > GTP. Also, it has very low activity towards ADP and even lower activity towards ATP. And it does not hydrolyze AMP and GMP. The specific function of CANT1 is as yet unknown, but its substrates are involved in several major signaling functions, including Ca2+ release, through activation of pyrimidinergic signaling. Recombinant human CANT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional



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chromatography techniques.

# **Amino acid Sequence**

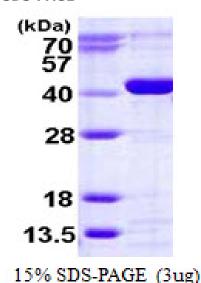
MGSSHHHHHH SSGLVPRGSH MGSHMRPAPG RPPTHNAHNW RLGQAPANWY NDTYPLSPPQ RTPAGIRYRI AVIADLDTES RAQEENTWFS YLKKGYLTLS DSGDKVAVEW DKDHGVLESH LAEKGRGMEL SDLIVFNGKL YSVDDRTGVV YQIEGSKAVP WVILSDGDGT VEKGFKAEWL AVKDERLYVG GLGKEWTTTT GDVVNENPEW VKVVGYKGSV DHENWVSNYN ALRAAAGIQP PGYLIHESAC WSDTLQRWFF LPRRASQERY SEKDDERKGA NLLLSASPDF GDIAVSHVGA VVPTHGFSSF KFIPNTDDQI IVALKSEEDS GRVASYIMAF TLDGRFLLPE TKIGSVKYEG IEFI

### **General References**

Yang M., et al. (2004) Biochemistry 43:9185-9194 Huber C, et al. (2009) Am J Hum Genet. 85(5):706-10.

#### DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

