

Recombinant Human Calcium Activated Nucleotidase 1, His-tagged

Cat. No. CANT1-1338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CANT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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 Ca ²⁺ release, through activation of pyrimidinergic signaling.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 50 mM NaCl.
Molecular Weight	40.5 kDa (364 aa), confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of amino acids

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

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Purine metabolism; Pyrimidine metabolism

GENE INFORMATION
Gene Name

[CANT1 calcium activated nucleotidase 1 \[Homo sapiens \]](#)

Official Symbol

[CANT1](#)

Synonyms

CANT1; calcium activated nucleotidase 1; DBQD; SCAN1; SHAPY; SCAN-1; soluble calcium-activated nucleotidase 1; apyrase homolog; putative MAPK-activating protein PM09; putative NF-kappa-B-activating protein 107; soluble Ca-activated nucleotidase, isozyme 1; soluble calcium-activated nucleotidase SCAN-1; Ca²⁺-dependent endoplasmic reticulum nucleoside diphosphatase; micromelic dwarfism with vertebral and metaphyseal abnormalities and advanced carpotarsal ossification

Gene ID

[124583](#)

mRNA Refseq

[NM_001159772](#)

Protein Refseq	NP_001153244
MIM	613165
UniProt ID	Q8WVQ1
Chromosome Location	17q25.3
Function	calcium ion binding; hydrolase activity; nucleoside-diphosphatase activity; signal transducer activity
PDBrendering based on 1s18.	