
Product Data Sheet

Product Name: CANT1 Human
 Cat. No.: GP22966
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Soluble calcium-activated nucleotidase 1; SCAN-1; Apyrase homolog; Putative MAPK-activating protein PM09; Putative NF-kappa-B-activating protein 107; CANT1; SHAPY; DBQD; SCAN1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPAPG RPPTHNAHNW RLQAPANWY NDTYPLSPPQ RTPAGIRYRI AVIADLDTES RAQEENTWFS YLKKGYLTLS DSGDKVAVEW DKDHGVLESH LAEKGRGMEL SDLIVFNGKL YSVDDRTGVV YQIEGSKAVP WVILSDGDGT VEKGFKAEWL AVKDERLYVG GLGKEWTTTT GDVVNENPEW VKVVGKGSV DHENWVSNYN ALRAAAGIQP PGYLIHESAC WSDTLQRWFF LPRRASQERY SEKDDERKGA NLLLSASPDF GDIAVSHVGA VVPTHGFSSF KFIPNTDDQI IVALKSEEDS GRVASYIMAF TLDGRFLLPE TKIGSVKYEY IEFI.		
Formulation	CANT1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.		

Introduction

Calcium-activated nucleotidase 1 (CANT1) is a member of the apyrase family. The CANT1 protein is calcium-dependent nucleotidase with a preference for UDP. The order of activity with different substrates is as follows: UDP > GDP > UTP > GTP. Moreover, CANT1 has a very low activity towards ADP and an even lower activity towards ATP. As well as it doesn't hydrolyze AMP and GMP. CANT1's specific function is yet unknown, nevertheless its substrates are involved in several key signaling functions, including Ca²⁺ release, through activation of pyrimidinerbic signaling. Mutations in the CANT1 gene are linked with Desbuquois dysplasia with hand anomalies.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CANT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 364 amino acids (63-401 a.a.) and having a molecular mass of 40.5kDa. CANT1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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