

# Recombinant Human CANT1 Protein (Ile107-Phe400), His tagged

Cat. No. CANT1-1083H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human CANT1 (Ile107-Phe400) fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ile107-Phe400
<b>Description</b>	<p>CANT1 (calcium activated nucleotidase 1) belongs to the apyrase family. Apyrase is a calcium-activated plasma membrane-bound enzyme (magnesium can also activate it) (EC 3.6.1.5) that catalyses the hydrolysis of ATP to yield AMP and inorganic phosphate. Two isoenzymes are found in commercial preparations from <i>S. tuberosum</i>. One with a higher ratio of substrate selectivity for ATP: ADP and another with no selectivity. It can also act on ADP and other nucleoside triphosphates and diphosphates with the general reaction being <math>NTP \rightarrow NDP + Pi \rightarrow NMP + 2Pi</math>. The salivary apyrases of blood-feeding arthropods are nucleotide hydrolysing enzymes are implicated in the inhibition of host platelet aggregation through the hydrolysis of extracellular adenosine diphosphate. CANT1 functions as a calcium-dependent nucleotidase with a preference for UDP. Defects in CANT1 are the cause of desbuquois dysplasia.</p>
<b>Form</b>	Lyophilized powder/frozen liquid

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<b>Molecular Mass</b>	33.15 kDa
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	CANT1 calcium activated nucleotidase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CANT1
<b>Synonyms</b>	CANT1; calcium activated nucleotidase 1; soluble calcium-activated nucleotidase 1; SCAN 1; SHAPY; Soluble Ca Activated Nucleotidase; isozyme 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; Ca <sup>2+</sup> -dependent endoplasmic reticulum nucleoside diphosphatase; micromelic dwarfism with vertebral and metaphyseal abnormalities and advanced carpotarsal ossification; DBQD; SCAN1; SCAN-1;
<b>Gene ID</b>	124583

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mRNA Refseq	NM_001159772
Protein Refseq	NP_001153244
MIM	613165
UniProt ID	Q8WVQ1

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