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CANT1 Human

Catalog #:PRPS-1017

For research use only.

Description: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.

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.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

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 AL

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
CANT1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.

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

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 doesnt hydrolyze AMP and GMP. CANT1s specific function is yet unknown, nevertheless its substrates are involved in several key signaling functions, including Ca2+ release, throµgh activation of pyrimidinergic signaling. Mutations in the CANT1 gene are linked with Desbuquois dysplasia with hand anomalies.

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