abcam

Product datasheet

Recombinant Human CANT1 protein ab123189

1 Image

Description

Product name	Recombinant Human CANT1 protein
Purity	> 90 % SDS-PAGE. ab123189 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	Q8WVQ1
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
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
Predicted molecular weight	41 kDa including tags
Amino acids	63 to 401
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab123189** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF

Form	Liquid

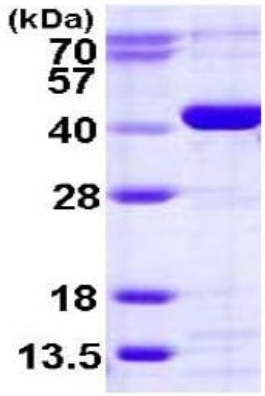
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.29% Sodium chloride

General Info

Function	Calcium-dependent nucleotidase with a preference for UDP. The order of activity with different substrates is UDP > GDP > UTP > GTP. Has very low activity towards ADP and even lower activity towards ATP. Does not hydrolyze AMP and GMP.
Tissue specificity	Widely expressed.
Involvement in disease	Defects in CANT1 are the cause of Desbuquois dysplasia (DBQD) [MIM:251450]. A chondrodysplasia characterized by severe prenatal and postnatal growth retardation (less than -5 SD), joint laxity, short extremities, progressive scoliosis, round face, midface hypoplasia, prominent bulging eyes. The main radiologic features are short long bones with metaphyseal splay, a 'Swedish key' appearance of the proximal femur (exaggerated trochanter), and advance carpal and tarsal bone age. Two forms of Desbuquois dysplasia are distinguished on the basis of the presence (type 1) or absence (type 2) of characteristic hand anomalies: an extra ossification center distal to the second metacarpal, delta phalanx, bifid distal thumb phalanx, and phalangeal dislocations.
Sequence similarities	Belongs to the apyrase family.
Post-translational modifications	N-glycosylated.
Cellular localization	Endoplasmic reticulum membrane. Golgi apparatus > Golgi stack membrane. Processed form: Secreted.

Images



SDS-PAGE - Recombinant Human CANT1 protein (ab123189)

15% SDS-PAGE showing ab123189 (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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