

Product datasheet for PH320693

NCALD (NM_001040627) Human Mass Spec Standard

Product data:

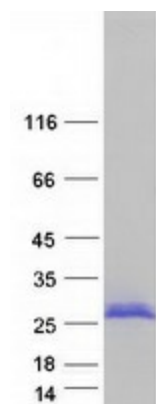
Product Type:	Mass Spec Standards
Description:	NCALD MS Standard C13 and N15-labeled recombinant protein (NP_001035717)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220693
Predicted MW:	22.3 kDa
Protein Sequence:	>RC220693 protein sequence Red=Cloning site Green=Tags(s) MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGFLRDCPSGHLSMEEFKKIYGNFFPYGDASKFAEHVFR TFDANGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLGNGYISKAEMLEIVQAIYKMVSSVMKMPE DESTPEKRTEKIFRQMDTNRDGKLSMEEFIRGAKSDPSIVRLQLQCDPSSAGQF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001035717</u>
RefSeq Size:	3586
RefSeq ORF:	579
Locus ID:	83988
UniProt ID:	<u>P61601</u> , <u>B2RB70</u>
Cytogenetics:	8q22.3



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Summary:

This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:


Coomassie blue staining of purified NCALD protein (Cat# [TP320693]). The protein was produced from HEK293T cells transfected with NCALD cDNA clone (Cat# [RC220693]) using MegaTran 2.0 (Cat# [TT210002]).