

Recombinant Human NCALD, His-tagged

Cat. No. NCALD-27853TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NCALD , with an N terminal His tag ; predicted mwt: 24.4 kDa.
Species	Human
Source	E.coli
ProteinLength	193 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	24.400kDa inclusive of tags
Tissue specificity	Retina, cerebrum, cerebellum, brain stem, spinal cord, testis, ovary and small

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	intestine.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 40% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHH SSGLVPRGSH MGKQNSKLRP EVMQDLLEST DFTEHEIQEW YKGFLRDCPS GHLSMEEFKK IYGNFFPYGD ASKFAEHVVRTFDANGDGTI DFREFIIALS VTSRGKLEQK LKWAFSMYDL DGNGYISKAE MLEIVQAIYK MVSSVMKMPE DESTPEKRTE KIFRQMDTNRDGKLSLEEFI RGAKSDPSIV RLLQCDPSSA GQF
Sequence Similarities	Belongs to the recoverin family. Contains 4 EF-hand domains.

GENE INFORMATION

Gene Name	NCALD neurocalcin delta [Homo sapiens]
Official Symbol	NCALD
Synonyms	NCALD; neurocalcin delta; neurocalcin-delta;
Gene ID	83988

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mRNA Refseq	NM_001040624
Protein Refseq	NP_001035714
MIM	606722
Uniprot ID	P61601
Chromosome Location	8q22-q23
Pathway	Activation of Ca-permeable Kainate Receptor, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Ionotropic activity of Kainate Receptors, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Receptor Binding And Downstream Transmission In The Postsynaptic Cell, organism-specific biosystem;
Function	actin binding; calcium ion binding; clathrin binding; tubulin binding;