

Recombinant Human CAMLG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CAMLG-1925H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CAMLG MS Standard C13 and N15-labeled recombinant protein (NP_001736) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The immunosuppressant drug cyclosporin A blocks a calcium-dependent signal from the T-cell receptor (TCR) that normally leads to T-cell activation. When bound to cyclophilin B, cyclosporin A binds and inactivates the key signaling intermediate calcineurin. The protein encoded by this gene functions similarly to cyclosporin A, binding to cyclophilin B and acting downstream of the TCR and upstream of calcineurin by causing an influx of calcium. This integral membrane protein appears to be a new participant in the calcium signal transduction pathway, implicating cyclophilin B in calcium signaling, even in the absence of cyclosporin.
Molecular Mass	33 kDa
AA Sequence	MESMAVATDGGERPAGSGLSASQRRRAELRRRKLLMNSEQRINRIMGFHRPGS GAEEESQTKSKQQDSDKLNLSVPSVSKRVVLGDSVSTGTTDQQGGVAEVKGTQL GDKLDSFIKPPECSSDVNLELRQRNRGDLTADSVQRGSRHGLEQYLSRFEEAMKLR KQLISEKPSQEDGNTTEEFDSFRIFRLVGCALLALGVRAVFCYKLSIFAPFLTLQLAYM GLYKYFPKSEKKIKTTVLTAALLSGIPAEVINRSMDTYSKMGEVFTDLCVYFFTFIFC

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HELLDYWGSEVPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CAMLG calcium modulating ligand [Homo sapiens (human)]
Official Symbol	CAMLG
Synonyms	CAMLG; calcium modulating ligand; calcium signal-modulating cyclophilin ligand; calcium modulating cyclophilin ligand; calcium signal modulating cyclophilin ligand; CAML; cyclophilin B binding protein; cyclophilin B-binding protein; calcium-modulating cyclophilin ligand; calcium-signal modulating cyclophilin ligand; MGC163197;
Gene ID	819
mRNA Refseq	NM_001745
Protein Refseq	NP_001736
MIM	601118

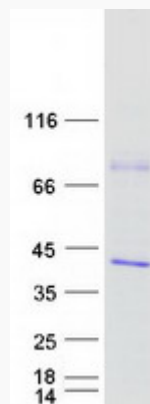
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UniProt ID

P49069

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