

Recombinant Human CAMLG, His-tagged

Cat. No. CAMLG-15870H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CAMLG protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-189aa
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. CAMLG 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol
Molecular Mass	23.2 kDa (212aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEsMAVA TDGGERPGVP AGSGLSASQR RAELRRRKLL MNSEQRINRI MGFHRPGSGA EEESQTKSKQ QDSDKLNSLS VPSVSKRVVL GDSVSTGTTD QQGGVAEVKG TQLGDKLDSF IKPPECSSDV

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	NLELRQRNRG DLTADSVQRG SRHGLEQYLS RFEEAMKLRK QLISEKPSQE DGNTTEEFDS FR
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	CAMLG calcium modulating ligand [Homo sapiens]
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
Chromosome Location	5q23
Function	protein binding;

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