

32-3408: CAMLG Recombinant Protein

Alternative Name : Calcium Modulating Ligand, Calcium-Modulating Cyclophilin Ligand, Calcium-Signal Modulating Cyclophilin Ligand, Cyclophilin B-Binding Protein, CAML.

Description

Source : Escherichia Coli. CAMLG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 212 amino acids (1-189) and having a molecular mass of 23.2kDa. CAMLG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. The immunosuppressant medicine cyclosporin A blocks a calcium-dependent signal from the T-cell receptor (TCR) which generally results in T-cell activation. cyclosporin A binds to cyclophilin B and the complex inactivates the main signaling intermediate calcineurin. CAMLG functions in the same way as cyclosporin A. CAMLG binds to cyclophilin B and operates downstream of the TCR and upstream of calcineurin by causing an influx of calcium. CAMLG is an essential membrane protein that takes part in the calcium signal transduction pathway, connecting cyclophilin B to calcium signaling, even when cyclosporine is not present.

Product Info

Amount : 20 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : The CAMLG solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SGLVPRGSH MGSMEsMAVA TDGGERPGVP AGSGLSASQR RAELRRRKL
MNSEQRINRI MGFHRPGSGA EEESQTKSKQ QSDKLNLSLSPSVSKRVVL GDSVSTGTTD
QGGVAEVKG TQLGDKLDSF IKPPECSSDV NLELRQRNRG DLTADSVQRG SRHGLEQYLS
RFEEAMKLRK QLISEKPSQE DGNTTEEFDS FR

