

Recombinant Human tripartite motif-containing 21

Cat. No. TRIM21-196H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RO-52 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain. The protein has a molecular mass of 52kDa. The RO-52 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Calreticulin is a multifunctional protein that binds Ca ²⁺ ions (a second messenger molecule in signal transduction), rendering it inactive. The Ca ²⁺ is bound with low affinity, but high capacity, and can be released on a signal (see inositol triphosphate). Calreticulin is located in storage compartments associated with the endoplasmic reticulum.
Amino Acid Sequence	MASAARLTMMWEEVTCPICLDPFVEPVSIIECGHSFCQECISQVGKGGGSVCAVCRQ RFLKLNLRPNRQLANMVNNLKEISQEAREGTQGERCAVHGERLHLFCEKDGKALC WVCAQSRKHRDHAMVPLEEAAQEYQEKLQVALGELRRKQELAIEKLEVEIAIKRADW KKTVETQKSRIHAEFVQKQNFVVEEQRLQLEKDEREQRLILGEKEAKLAQQSQA LQELISELDRRCHSSALELLQEVIIVLERSSEWNLKDLDITSPELRSVCHVPGLKKMLR TCAVHITLDPDTANPWLILSEDRRQVRLGDTQQSIPGNEERFDSYPMVLGAQHFS GKHYWEVDVTGKEAWDLGVCRDSVRRKGHFLSSKSGFWTIWLWNKQKYEAGTY PQTPLHLQVPPCQVGIFLDYEAGMVSYFNITDHGSLIYSFSECAFTGPLRPFFSPGFN DGGKNTAPLTLCPLNIGSQGSTDY.

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Physical Appearance	Sterile Filtered clear solution.
Formulation	The protein solution (1mg/ml) contains 6M Urea, 500mM NaCl and 10mM Tris pH8.0.
Purity	Greater than 90.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Protein Content	Protein quantitation was carried out by using 0.25 -2.0 mg/ml Bradford assay vs. BSA.
Western Blot	Strongly reactive with human anti RO/SS-A.
Stability	Lyophilized RO-52 although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	TRIM21 tripartite motif-containing 21 [Homo sapiens]
Synonyms	TRIM21; tripartite motif-containing 21; SSA; RO52; SSA1; RNF81; SSA1; Sjogren syndrome antigen A1 (52kDa, ribonucleoprotein autoantigen SS-A/Ro); 52 kDa Ro protein; Sjogren syndrome type A antigen; SS-A; Ro(SS-A); 52 kDa ribonucleoprotein autoantigen Ro/SS-A; Tripartite motif-containing protein 21; RING finger protein 81; TRIM21 ; Ro(SS-A); SS-A; 52 kDa ribonucleoprotein autoantigen Ro/SS-A; Sicca syndrome antigen A; Sjogren syndrome type A antigen; Sjogren syndrome antigen A1 (52kDa, ribonucleoprotein autoantigen SS-A/Ro); tripartite motif protein 21; Tripartite motif-containing 21
Gene ID	6737
mRNA Refseq	NM_003141

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Protein Refseq	NP_003132
MIM	1099092
UniProt ID	P19474
Chromosome Location	11p15.5-p15.3
Pathway	Systemic lupus erythematosus
Function	DNA binding;RNA binding;metal ion binding;protein binding;zinc ion binding
PDB rendering based on 2iwg.	