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Product Information

Ro-52 (SSA), human
recombinant, expressed in *E. coli*

Catalog Number **R8526**
Storage Temperature –70 °C

Product Description

Ro-60 (SSA) and Ro-52 (SSA) are intracellular antigens, which are associated with rheumatic diseases. The recombinant proteins have been used to detect specific serum autoantibodies.[1] These autoantigens are proposed to translocate to the extracellular membrane during apoptosis.[2] Maternal antibodies to Ro-60 and Ro-52 have also been associated with fetal congenital heart block.[3] Ro-60 and Ro-52 can also combine with a small RNA to form Ro ribonucleoproteins (RNPs).[4]

Recombinant human Ro-52 (SSA) is supplied in a buffered solution containing 3 M urea, 500 mM NaCl, and 20 mM phosphate, pH 6.

The recombinant product migrates as a 53 kDa protein on SDS-PAGE.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The recombinant human Ro-52 (SSA) solution should be stored in aliquots at –70 °C. Avoid multiple freeze-thaw cycles. The product ships on dry ice.

References

1. Yamamoto, A.M. et al., Quantitative radioligand assays using *de novo*-synthesized recombinant autoantigens in connective tissue diseases: new tools to approach the pathogenic significance of anti-RNP antibodies in rheumatic diseases. Arthritis. Rheum., **43**, 689-698 (2000).
2. Wang, B. et al., SSA/Ro antigen expressed on membrane of UVB-induced apoptotic keratinocytes is pathogenic but not detectable in supernatant of cell culture. Chin. Med. J., **112**, 512-515 (1999).
3. Miranda-Carus, M.E. et al., Anti-SSA/Ro and anti-SSB/La autoantibodies bind the surface of apoptotic fetal cardiocytes and promote secretion of TNF-alpha by macrophages. J. Immunol., **165**, 5345-5351 (2000).
4. Gendron, M. et al., Heterogeneity of human Ro ribonucleoproteins (RNPs): nuclear retention of Ro RNPs containing the human hY5 RNA in human and mouse cells. Clin. Exp. Immunol., **125**, 162-168 (2001).

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