



Biozym Art No.: 160704

ScriptGuard™ RNase Inhibitor

Cat. No. **C-SRI6310K**

INTRODUCTION

ScriptGuardTM RNase Inhibitor prevents the degradation of RNA by eukaryotic RNase A, RNase B and RNase C, but it does not inhibit RNase 1, RNase H, RNase T1, RNase T2 or S1 Nuclease. A potent affinity for RNases ($K_i \sim 10^{-14}$ M) and a 1:1 binding ratio ensures rapid inhibition even when trace amounts of RNase are present. ScriptGuard RNase Inhibitor is free of detectable RNase and DNase activities and mammalian DNA. Because it does not interfere with most commonly used enzymes. It can be used in a wide variety of applications, including cDNA synthesis, and *in vitro* transcription and translation reactions.

MATERIALS

Materials Supplied

Important Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C.

ScriptGuard™ RNase Inhibitor		
Catalog Number	Concentration	Units
C-SRI6310K	40 U/μl	10,000



SPECIFICATIONS

Storage Buffer

ScriptGuard RNase Inhibitor is supplied in a 50% glycerol solution containing 50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 10 mM DTT, 0.1 mM EDTA and 0.1% Triton® X-100.

Unit Definition

One unit of ScriptGuard RNase Inhibitor results in 50% inhibition of 5 ng of RNase A.

Functional Testing

ScriptGuard RNase Inhibitor is functionally tested to inhibit hydrolysis of cyclic 2',3'-CMP by RNase A.

Contaminating Activity Assays

ScriptGuard RNase Inhibitor is free of detectable mammalian DNA, and RNase and DNase activities.



For more information, consult the appropriate safety data sheet (SDS) at www.cellscript.com/products.html.



BEFORE YOU START: IMPORTANT TIPS FOR OPTIMAL RESULTS

♦ Recommended Working Concentration:

We recommend that ScriptGuard RNase Inhibitor be used at a final reaction concentration of 1 U/ μ l in any reaction where RNA integrity is a concern. Examples include: *in vitro* transcription, RNA 5'-end capping, RNA 3'-end poly(A)-tailing, *in vitro* translation reactions, etc...

♦ Maintaining an RNase-Free Environment:

RNases are ubiquitous, highly stable, can contaminate any lab environment and are present on human skin. Creating an RNase-free work environment and maintaining RNase-free solutions is critical for successful RNA reactions. Therefore, we strongly recommend that the user:

- Use RNase-free tubes and pipette tips.
- Always wear gloves when handling samples containing RNA. Change gloves frequently, especially
 after touching potential sources of RNase contamination such as door knobs, pens, pencils and
 human skin.
- Always wear gloves when handling kit components. Do <u>not</u> touch any kit component with an ungloved hand.
- Keep all kit components tightly sealed when not in use. Keep all tubes containing RNA tightly sealed during the incubation steps.

RELATED PRODUCTS

- A-Plus™ Poly(A) Polymerase Tailing Kit
- INCOGNITO™ SP6 Ψ-RNA Transcription Kit
- INCOGNITO™ T7 5mC- & Ψ-RNA Transcription Kit
- INCOGNITO™ T7 ARCA 5mC- & Ψ-RNA Transcription Kit
- INCOGNITO™ T7 Ψ-RNA Transcription Kit
- MessageMAX™ T7 ARCA-Capped Message Transcription Kit
- ScriptCap™ 2'-O-Methyltransferase Kit
- ScriptCap™ Cap 1 Capping System
- ScriptCap™ m⁷G Capping System
- SP6-Scribe™ Standard RNA IVT Kit
- T7-FlashScribe™ Transcription Kit
- T7 mScript™ Standard mRNA Production System
- T7-Scribe™ Standard RNA IVT Kit

The performance of this product is guaranteed for one year from the date of purchase.

Triton is a registered trademark of Rohm & Haas, Philadelphia, Pennsylvania.

A-Plus, CELLSCRIPT, INCOGNITO, MessageMAX, mScript, ScriptCap, ScriptGuard, SP6-Scribe, T7-FlashScribe and T7-Scribe are trademarks of CELLSCRIPT, Madison, Wisconsin.

The Purchaser of this product agrees to the TERMS AND CONDITIONS posted on CELLSCRIPT's website: http://www.cellscript.com.

© 2022 CELLSCRIPT, All rights reserved.