

ANTI-RNase

Store at -20°C .
Do not store in a frost-free freezer
 or at -70°C .

Catalog #:	AM2690	AM2692
Amount:	2,500 Units	10,000 Units
Unit Definition:	One unit is the amount of protein required to inhibit the activity of 5 ng RNase A by 50%. Assay Conditions: 100 mM Tris-acetate (pH 6.5), 1.0 mM EDTA and 1.0 mM cyclic 2', 3' CMP and ANTI-RNase. Addition of RNase A initiates the reaction. Activity is measured by the inhibition of hydrolysis of cyclic 2', 3' CMP by RNase A.	
Storage Conditions:	Store at -20°C . Do not store in a frost-free freezer or at -70°C.	
Storage Buffer:	(Not included) 2.0 mM KH_2PO_4 , 8.0 mM Na_2HPO_4 , 2.7 mM KCl, 137 mM NaCl, pH 7.4 and 50% Glycerol.	

USER INFORMATION

Product Description:	ANTI-RNase is a protein ribonuclease inhibitor that non-covalently binds and inactivates RNases A, B, and C. No inhibition is seen with RNases T1, T2, H, U1, U2 or CL3. ANTI-RNase is distinct from human placental ribonuclease inhibitor (Cat. #AM2682, AM2684) in that it has a more robust interaction with RNase and does not release active RNase in the absence of DTT or other reducing agents.
Applications:	ANTI-RNase may be used in any application where placental ribonuclease inhibitor is used. It is ideal for use in <i>in vitro</i> transcription and translation, cDNA synthesis, PCR, RT-PCR, RNA isolation procedures and the preparation of RNase-free antibodies. Add ANTI-RNase to reactions to give a final concentration of 1 U/ μL . Slight inhibition of ANTI-RNase is seen in the presence of DTT (≥ 20 mM). The addition of DTT is not recommended for storage.
Reference:	Murphy NR, Leinbach SS and Hellwig RJ. (1995) <i>BioTechniques</i> 18(6) :1068–1073.

QUALITY CONTROL

ANTI-RNase is thoroughly tested for contaminating RNase, exonuclease, and protease activity. Functionality is determined in a unit activity assay.

OTHER INFORMATION

Material Safety Data Sheets:	Material Safety Data Sheets (MSDSs) for any chemical product supplied by Applied Biosystems or Ambion are available 24 hours a day. At www.appliedbiosystems.com , select Support, then MSDS. Search by chemical name, product name, product part number, or MSDS part number. Right-click to print or download the MSDS of interest. At www.ambion.com , go to the web catalog page for the product of interest. Select MSDS, then right-click to print or download. Or, e-mail (MSDS_Inquiry_CCRM@appliedbiosystems.com), telephone (650-554-2756; USA), or fax (650-554-2252; USA) your request, specifying the catalog or part number(s) and the name of the product(s). We will e-mail the associated MSDSs unless you request fax or postal delivery. Requests for postal delivery require 1-2 weeks for processing.
Warranty and Liability:	<p>For research use only. Not for use in diagnostic procedures.</p> <p>Ambion, a part of Life Technologies Corporation, is committed to delivering superior product quality and performance, supported by industry-leading global service and technical support teams. Warranty information for the accompanying consumable product is available at www.ambion.com/info/warranty in "Limited Warranty for Consumables," which is subject to the exclusions, conditions, exceptions, and limitations set forth under the caption "EXCLUSIONS, CONDITIONS, EXCEPTIONS, AND LIMITATIONS" in the full warranty statement. Please contact Ambion if you have any questions about our warranties or would like information about post-warranty support.</p> <p>Information in this document is subject to change without notice. Ambion, a part of Life Technologies Corporation, assumes no responsibility for any errors that may appear in this document.</p> <p>Ambion disclaims all warranties with respect to this document, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. In no event shall Ambion be liable, whether in contract, tort, warranty, or under any statute or on any other basis for special, incidental, indirect, punitive, multiple or consequential damages in connection with or arising from this document, including but not limited to the use thereof.</p>
Trademarks, Patents, and Licensing:	The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.
	© 2009 Life Technologies Corporation. All rights reserved. 4393875B