Ribonucleoside Vanadyl Complexes

Product description

Ribonucleoside Vanadyl Complex (RVC) is a commonly used ribonuclease (RNase) inhibitor. It is widely applied in the isolation, purification and detection of RNA samples to inhibit RNA degradation. This product is supplied at a concentration of 200 mM, and is prepared by optimally reacting an equimolar mixture of four rNTPs with vanadium oxide. It binds to RNase via non-covalent bonds to form stable complexes, thereby suppressing the activity of most RNases. In addition, this product does not inhibit DNase I. Therefore, when DNase I is used to digest contaminating DNA in RNA samples, RVC can be added to block RNase activity and protect RNA from degradation.

Composition and storage conditions

Components \ Size	2 mL	10 mL	Storage
Ribonucleoside Vanadyl Complexes	2 mL	10 mL	-20 °C

Shipping: Blue Ice **Shelf life:** 12 months

Experimental operation

This product is provided at a concentration of 200 mM. A final concentration of 20 mM is recommended for general cell lysate applications, and alternative concentrations can be adopted according to experimental experience or published literature. In general, higher RVC concentrations offer stronger inhibitory effects on RNase.

Notes

1. The detergent SDS and the chelating agent EDTA can inactivate RVC. Do not use them simultaneously with RVC.
2. It is recommended to aliquot the product upon use to avoid repeated freeze-thaw cycles, which may reduce RVC activity.
3. RVC exerts a certain inhibitory effect on PCR polymerases and is therefore not recommended for direct addition to reverse transcription systems. For reverse transcription reactions, please use our alternative RNase Inhibitor, Murine (Cat. No. K1046).
4. This reagent is for research use only.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com