Human Placental RNase Inhibitor

Human Placental RNase Inhibitor is an acidic protein of molecular weight near 50 kDa. It forms 1:1 complex with RNase A and is a noncompetitive inhibitor of this enzyme. RNase Inhibitor is active over a broad pH range and requires DTT for its activity.

Unit definition: One unit is defined as the amount of RNase Inhibitor required to inhibit the activity of 5 ng of RNase A by 50%.

Storage buffer: 20 mM HEPES-KOH (pH 7.6), 50 mM KCl, 5 mM DTT and 50% glycerol.

Application: RNase inhibitor is used to protect the mRNA in cDNA synthesis, in *in vitro* transcription / translation system and *in vitro* RNA synthesis.

Note: 5 mM DTT concentration is critical for the inhibitor and so has to be maintained during long and repeated uses.

Store at - 20°C

Performance Test: Used extensively in our lab for ***in vitro*** **transcription assays** and **RT-PCRs**.

Ordering Information:

Product	Size	Cat #
Human Placental RNase inhibitor	1000 U	105389