

Rev03  
Update: Feb,10,2022

**DATASHEET**

# Peptide C105Y

Cat. No.: RP20382

## Overview

<b>Description</b>	This is a synthetic peptide based on the sequence corresponding to residues 359 to 374 of $\alpha$ 1-antitrypsin. C105Y can penetrate cell membrane rapidly, enter the cytoplasm, and localize to the nucleus and nucleolus of live culture cells. C105Y peptide is routed to the nucleolus very rapidly in an energy-dependent fashion; whereas membrane translocation and nuclear localization are energy-independent. It enhances gene expression from DNA nanoparticles.
<b>Sequence</b>	{Cys}{Ser}{Ile}{Pro}{Pro}{Glu}{Val}{Lys}{Phe}{Asn}{Lys}{Pro}{Phe}{Val}{Tyr}{Leu}{Ile}
<b>Sequence Shortening</b>	CSIPPEVKFNKPFVYLI
<b>Molecular Formula</b>	$C_{97}H_{148}N_{20}O_{23}S$
<b>Molecular Weight</b>	1994.41

## Properties

<b>Purity</b>	> 95%
<b>Form</b>	Lyophilized
<b>Storage</b>	Store at -20°C. Keep tightly closed. Store in a cool dry place.