CapClip Pyrophosphatase 5 U/µl

Cellscript



CELLSCRIPT™
RNA for Translation in Cells

100 Units

Artikel-Nr.: 187005 | CellScript | Hersteller-Nr.: C-CC15011H

669,00 €*

*zzgl. MwSt. zzgl. Versandkosten

Beschreibung

Verpackung:100 Units

Cap-Clip™ Acid Pyrophosphatase ist ein Enzym pflanzlicher Herkunft, das verschiedene Pyrophosphat-Bindungen hydrolysiert, darunter auch die der 5'-terminale m7GpppG "cap"-Struktur von eukaryontischer mRNA sowie auch 5' Cap Strukturen von vielen snRNAs (small nuclear RNAs), heterogeneous nuclear RNAs und einigen viralen RNAs. Nach der vollständigen Hydrolyse dieser RNAs mit der Cap-Clip™ Acid Pyrophosphatase entsteht am 5'-Ende eine Monophosphat-Gruppe.

Applikationen

- Erzeugung von Templates für RACE (Rapid Amplification of cDNA Ends)
- 5'-und 3'-End Mapping von RNA
- Ligation von Oligoribonukleotiden an CapClip™-behandelte RNA für die Konstruktion von Full-length cDNA Bibliotheken
- Mapping der Transkriptionsinitiierungs-Sites von eukaryontischen und prokaryontischen Transkripten

Lagerung

Bei -20°C in einem Gefrierschrank ohne Auftauautomatik. Bitte nicht bei –70°C lagern.

Cap-Clip™ Acid Pyrophosphatase (100 units)

20 ?l Cap-Clip™ Acid Pyrophosphatase (5 U/?l) in 50% Glycerol, 10 mM Tris-HCl, pH 7.5, 100 mM NaCl, 1 mM Dithiothreitol, 0.1 mM EDTA and 0.01% Triton® X-100.

250 ?l 10X Cap-Clip™ Acid Pyrophosphatase Reaction Buffer (0.5 M NaOAc, pH 6.0, 10 mM EDTA, 1% Beta-Mercaptoethanol and 0.1% Triton X-100)

Spezifikationen

Unit Definition

Eine Unit der Cap-Clip Acid Pyrophosphatase entlässt ein nMol anorganisches Phosphat aus m7GpppG in 30 Minuten bei 37°C unter Standard Assay Bedingungen.

Contaminating Activity Assays

Cap-Clip Acid Pyrophosphatase ist frei von detektierbarer RNase und DNase Aktivität.

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Rechtliches
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Cap-Clip™ Acid Pyrophosphatase is a plant-derived enzyme that hydrolyzes various pyrophosphate bonds, including the pyrophosphate bonds of the 5'-terminal m7GpppG "cap" of eukaryotic messenger RNAs, as well as 5' cap structures on many small nuclear RNAs (snRNAs), heterogeneous nuclear RNAs and some viral RNAs. Complete hydrolysis of such capped RNAs generates RNA that has a 5'-monophosphate group.

Applications

- Cloning of Full-Length cDNAs and Rapid Amplification of cDNA Ends (RACE): After decapping the RNA an adaptor sequence is ligated to the 5? end using T4 RNA
- RNA 5?-End Conversion. In addition to decapping capped mRNA, TAP can also be used to convert 5?-triphosphate RNA into 5?-monophosphate RNA.

MATERIALS

Materials Supplied

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

Cap-Clip™ Acid Pyrophosphatase (100 units)

Cap-Clip™ Acid Pyrophosphatase, 5 U/?l in 50% glycerol, 10 mM Tris-HCl, pH 7.5, 100 mM NaCl, 1 mM dithiothreitol, 0.1 mM EDTA and 0.01% Triton® X-100.
20 ?l
10X Cap-Clip™ Acid Pyrophosphatase Reaction Buffer 0.5 M NaOAc, pH 6.0, 10 mM EDTA, 1% beta-mercaptoethanol and 0.1% Triton X-100.
250 ?l

SPECIFICATIONS

Unit Definition

One unit of Cap-Clip Acid Pyrophosphatase releases one nanomole of inorganic phosphate from m7GpppG in 30 minutes at 37oC under standard assay conditions.

Contaminating Activity Assays

Cap-Clip Acid Pyrophosphatase is free of detectable RNase and DNase activities.

Art.Nr Art.Bez.1 Art.Bez.2 Preis
187005 CapClip Pyrophosphatase 5 U/µl 100 Units 475,00 €

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