

The professional cell culture empowers a healthier world

Actinomycin D (10 mg/mL)

Cat. No.: PB180135

Size: 1mL

Product Description

Actinomycin D is an antitumor antibiotic that inhibit cell proliferation and induces apoptosis in tumor cells. This compound inhibits cell proliferation in a non-specific manner by forming a stable complex with double-stranded DNA (via deoxyguanosine residues), thereby inhibiting DNA-initiated RNA synthesis. Additionally, Actinomycin D causes single-strand breaks in DNA, contributing to its cytotoxic effects.

Actinomycin D inhibits the negative strand transfer step in reverse transcription, making it useful for studying and inhibiting HIV replication.

This reagent is commonly used in various bioscience studies: Related studies have also shown that it can inhibit etoposide (an inhibitor of topoisomerase II)-induced programmed cell death in PC12 cells; the binding of actinomycin D to yeast in ribosomal RNA has been studied; the sensitivity and binding mechanism of various Escherichia coli strains to actinomycin D has been studied; and actinomycin D has also been used in molecular biology as a DNA intercalizing polymerase that blocks the progress.

General Information

Form	Liquid
Concentration	10 mg/mL
Size	1mL
Storage Conditions	-5~-20°C. Protect from light
Transport Conditions	Ice bag
Expiration Date	12 months

Notes

1. This reagent is a toxic compound, please ensure proper protection during operation.

SYSTEM

- 2. This product has been filtered and sterilized by 0.1 µm filter, can be used directly after melting.
- 3. When using this product, attention should be paid to aseptic operation to avoid contamination.
- 4. The product should be stored in 2-8°C thawed, shake well after use, repeated freezing and thawing is not recommended.
- 5. If there are precipitates after thawing, they can be vortexed and mixed evenly or blown with a pipette. After standing at room temperature for about 1 hour or at 37°C in an incubator for 20-30 minutes, observe whether the precipitates can be dissolved normally, and if they can be dissolved, it can be used normally.
- 6. This product is a concentrated liquid, please dilute it as needed.
- 7. It is recommended to use the regular at 2-8°C for preservation within one month. It needs to be frozen at -5~-20°C when not in use for a long time, and it is not suitable for long-term storage at room temperature or 2-8°C. To avoid repeated freezing and thawing, it is recommended to store it in small quantities after subpackaging.
- 8. This product is only for scientific research or further research use, not for diagnosis and treatment.

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