

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 Pricella 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.
- 2. This product has been filtered and sterilized by 0.1 µm filter, can be used directly after melting.
- When using this product, attention should be paid to aseptic operation to avoid contamination. 3.
- 4. The product should be stored in 2-8°C thawed, shake well after use, repeated freezing and thawing is not recommended.
- If there are precipitates after thawing, they can be vortexed and mixed evenly or blown with a pipette. After 5. 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.
- science This product is a concentrated liquid, please dilute it as needed. 6.
- It is recommended to use the regular at 2-8°C for preservation within one month. It needs to be frozen at 7. -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.
- This product is only for scientific research or further research use, not for diagnosis and treatment. 8.