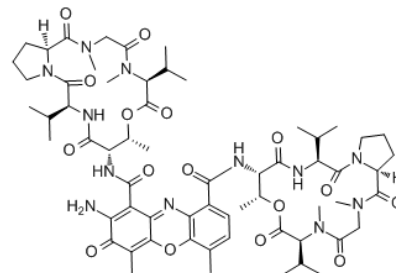


Product Name : Actinomycin D
Cat. No. : PC-45350
CAS No. : 50-76-0
Molecular Formula : C₆₂H₈₆N₁₂O₁₆
Molecular Weight : 1255.417
Target : DNA/RNA Synthesis
Solubility :



Biological Activity

Actinomycin D is a chemotherapy agent that has the ability to inhibit transcription, binds to DNA at the transcription initiation complex and preventing elongation of RNA chain by **RNA polymerase**, inhibits DNA repair with IC₅₀ of 0.42 μM. Actinomycin D can also interfere with DNA replication. Actinomycin D leads to the accumulation of transcriptionally active p53 in the nucleus of HeLa, CaSki, and SiHa cells.

References

- Hietanen S, et al. *Proc Natl Acad Sci U S A*. 2000 Jul 18;97(15):8501-6.
Sobell HM. *Proc Natl Acad Sci U S A*. 1985 Aug;82(16):5328-31.
Uberti EM, et al. *Gynecol Oncol*. 2009 Dec;115(3):476-81.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com