

Product Name	: Phleomycin
Synonyms	: —
Cat No.	: M23301
CAS Number	: 11006-33-0
Molecular Formula	: C ₄₈ H ₆₉ N ₁₇ O ₂₀ S ₂
Formula Weight	: 1268.3
Chemical Name	: —
Description	: Phleomycin is one of the anticancer glycopeptide antibiotics which cause DNA cleavage. It is similar to Bleomycin (HY-17565A) which binds and intercalates DNA to damage the integrity of the double helix.
Pathway	: Microbiology/Virology
Target	: Antibiotic
Receptor	: Antibiotic
Solubility	: H ₂ O : 100 mg/mL (75.39mM; Need ultrasonic)
SMILES	: <chem>NC1=NC(C(NCC(N)C(N)=O)CC(N)=N)=NC(C(NC(C(O[C@@]2(OC3[C@H](O)[C@@](O)(C(N)=O)[C@@H](O)C(CO)O3)[C@H](C)[C@@H](O)[C@H](O)[C@H](CO)O2)C4=CNC=N4)C(C(O)C(C)C(NC(C(C)=O)C(NCCC5=NC(C6=NC(C(N)=O)=CS6)CS5)=O)=O)=O)=O)=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1.Stokowa-Sołtys K, et al. Phleomycin complex - Coordination mode and in vitro cleavage of DNA. J Inorg Biochem. 2019 Jun;195:71-82.