



LKT Laboratories, Inc.

Phleomycin

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## Product Information

Product ID P2845

CAS No. 11006-33-0

**Chemical Name**

Synonym NSC 61586, NSC 616586.

Formula  $C_{51}H_{75}N_{17}O_{21}S_2$

Formula Wt. 1326.38

**Melting Point**

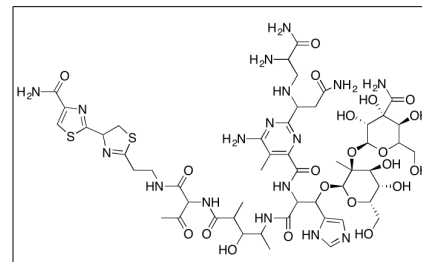
Purity  $\geq 97\%$

Solubility Soluble in water (10 mg/mL); slightly soluble in methanol.

Store Temp 4°C

Ship Temp Ambient

**Description** Phleomycin is a glycopeptide antibiotic that binds DNA but does not intercalate. Phleomycin is mutagenic and requires metal ions to induce double-stranded DNA breaks. This compound displays some antibacterial and antifungal activities.



**Bulk quantities available upon request**

Product ID	Size
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P2845	5 mg
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P2845	25 mg
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P2845	100 mg
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**References** van Peer AF, de Bekker C, Vinck A, et al. Phleomycin increases transformation efficiency and promotes single integrations in *Schizopyllum commune*. *Appl Environ Microbiol.* 2009 Mar;75(5):1243-7. PMID: 19114524.

Povirk LF, Hogan M, Dattagupta N, et al. Copper(II).bleomycin, iron(III).bleomycin, and copper(II).phleomycin: comparative study of deoxyribonucleic acid binding. *Biochemistry.* 1981 Feb 3;20(3):665-71. PMID: 6163448.

Sleigh MJ. The mechanism of DNA breakage by phleomycin in vitro. *Nucleic Acids Res.* 1976 Apr;3(4):891-901. PMID: 818624.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.