# PRODUCT INFORMATION

## Deacetylanisomycin

*Item No. 28067*

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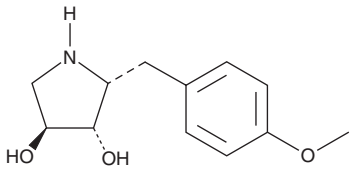
| **CAS Registry No.:** | 27958-06-1 |
| **Formal Name:** | (2R,3S,4S)-2-[(4-methoxyphenyl) methyl]-3,4-pyrrolidinediol |
| **Synonyms:** | (–)-Deacetylanisomycin, SA 3097D1 |
| **MF:** | $C_{12}H_{17}NO_3$ |
| **FW:** | 223.3 |
| **Purity:** | ≥95% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Deacetylanisomycin is supplied as a solid. A stock solution may be made by dissolving the deacetylanisomycin in the solvent of choice. Deacetylanisomycin is soluble in the organic solvent methanol.

### Description

Deacetylanisomycin is a derivative of the protein and DNA synthesis inhibitor anisomycin (Item No. 11308) with antimalarial and anticancer activity.[1,2] It inhibits the growth of the *P. falciparum* strains K1 and T9-96 *in vitro* ($IC_{50}$s = 40.29 and 33.57 µM, respectively).[1] Deacetylanisomycin is cytotoxic to LU99 lung carcinoma and MCF-7 breast cancer cells ($IC_{50}$s = 23 and 34 µM, respectively). It has been used as a negative control for assessment of protein synthesis inhibitor activity in molluscan neurons.[3]

### References


1. Ekong, R.M., Kirby, G.C., Patel, G., *et al*. Comparison of the in vitro activities of quassinoids with activity against *Plasmodium falciparum*, anisomycin and some other inhibitors of eukaryotic protein synthesis. *Biochem. Pharmacol.* **40(2),** 297-301 (1990).
2. Hosoya, Y., Kameyama, T., Naganawa, H., *et al*. Anisomycin and new congeners active against human tumor cell lines. *J. Antibiot. (Tokyo)* **46(8),** 1300-1302 (1993).
3. Alkon, D.L., Bank, B., Naito, S., *et al*. Inhibition of protein synthesis prolongs $Ca^{2+}$-mediated reduction of $K^+$ currents in molluscan neurons. *Proc. Nat. Acad. Sci. USA* **84(19),** 6948-6952 (1987).





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