Product Name: Anisomycin
CAS No.: 22862-76-6
Cat. No.: HY-18982
MWT: 265.31
Formula: C14H19NO4
Purity: >98%

Solubility: 10 mM in DMSO

Mechanisms: Pathways: Anti-infection; Target: Antibacterial
Pathways: MAPK; Target: JNK

Biological Activity:
Anisomycin is a pyrrolidine antibiotic, acts as an anti-fungal antibiotic which inhibits Protein Synthesis, also is a potent activator of SAPKs/JNKs.
Target: antibiotic
in vitro: Anisomycin inhibits EAC cell proliferation in concentration-dependent manner. [2]
Anisomycin (3 μM) decreases protein synthesis in MDA16 and MDA-MB-468 cells, and reduces colony formation by MDA-MB-468 cells. Anisomycin causes an increase in the number of apoptotic cells in MDA-MB-468 cultures, but not in MDA16 cultures. Anisomycin activates JNK phosphorylation in MDA-MB-468 cells.[3]
in vivo: Peritumoral administration of anisomycin (5 mg/kg) significantly suppresses Ehrlich ascites carcinoma (EAC) growth resulting in the survival of approximately 60% of the mice 90 days after EAC inoculation. [2]...

References:

Caution: Not fully tested. For research purposes only

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