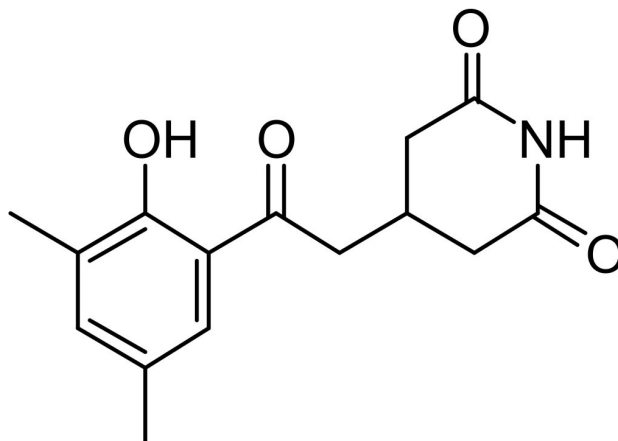


## Actiphenol

Code No.: BIA-A2559

Pack sizes.: 1mg, 5mg



### Synonyms:

Actinophenol, NSC 58413

## Specifications

CAS #	: <b>526-02-3</b>
Molecular Formula	: <b>C15H17NO4</b>
Molecular Weight	: <b>275.3</b>
Source	: -
Appearance	: <b>Off-white solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Actiphenol is a glutarimide antibiotic first reported in 1956 with antifungal and antitumor activity. Actiphenol is more active against coxsackievirus B3, influenza virus A, and herpes simplex virus 2 than synthetic glutarimides. The production of actiphenol and cycloheximide in *Streptomyces* is governed by the same single gene cluster.

## References

1. Stoffwechselprodukte von Actinomyceten, Actiphenol. Highet R.J. and Prelog J. *Helv Chim Acta* 1956 42: 1523-1526 (1956)
2. Synthesis and antiviral activities of synthetic glutarimide derivatives. Ji X. et al. *Chem. Pharm. Bull.* 2010, 58, 1436.
3. Cycloheximide and actiphenol production in *Streptomyces* sp. YIM56141 governed by single biosynthetic machinery featuring an acyltransferase-less type I polyketide synthase. Yin M. et al. *Org. letters* 2014, 16, 3072.