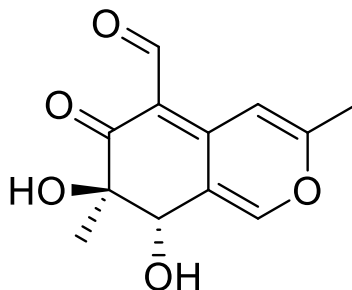


Austdiol

Code No.: **BIA-A2935**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 53043-28-0
Molecular Formula	: C ₁₂ H ₁₂ O ₅
Molecular Weight	: 236.2
Source	: <i>Aspergillus</i> sp.
Appearance	: Off-white to yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Austdiol is an azaphilone pigment produced by *Aspergillus ustus* found in cereals feed grain first reported Steyn and co-workers at CSIR, South Africa in 1974. Austdiol is a trans-vicinal diol in which the two fused rings lie in approximately the same plane. Austdiol induces cell cycle arrest in G2/M phase, inducing DNA breaks and increasing the frequency of micronuclei and nucleoplasmic bridges in binucleated cells in a CHO-K1 cell line. Austdiol is mutagenic and carcinogenic.

References

1. Constitution and absolute configuration of austdiol, the main toxic metabolite from *Aspergillus ustus*. Vlegaar R. et al. J Chem Soc Perkin Transaction 1, 1974, 45.
2. The fungal metabolite austdiol. Lo Presti L. et al. Acta Crystallographica, Section C: Crystal Structure Communications (2003), C59, 4.
3. The effects of the mycotoxin austdiol on cell cycle progression, cytotoxicity and genotoxicity in Chinese hamster ovary (CHO-K1) cells. Franchi L.P. et al. World Mycotox J 2016, 9, 237.