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DATASHEET

Gossypol

Product overview

Name	Gossypol
Cat No	HB0304
Biological action	Inhibitor
Purity	>90%
Description	Dehydrogenase enzyme inhibitor

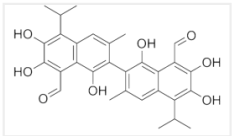
Biological Data

Biological description	Dehydrogenase enzyme inhibitor. Bcl-2 homology 3 (BH3)-mimetic agent, binds to the BH3 domain of members of the B-cell lymphoma 2 (Bcl-2) family. Inhibits APE-1 (apurinic/apyrimidinic endonuclease 1) activity. Shows antioxidant, antiviral, antiparasitic, apoptotic and anticancer actions.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in ethanol (25mg/ml) or DMF (25mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Pogosin; AT101
Molecular Weight	518.56
Chemical structure	
Molecular Formula	$C_{30}H_{30}O_8$
CAS Number	303-45-7
PubChem identifier	3503
SMILES	CC1=C(C(=C2C(=C1)C(=C(C(=C2C=O)O)O)C(C)C)O)C3=C(C=C4C(=C3O)C(=C(C(=C4C(C)C)O)O)C=O)C
Source	Synthetic
InChiKey	QBKSWRVVCFFDOT-UHFFFAOYSA-N

References

Identification of a novel potential antitumor activity of gossypol as an APE1/Ref-1 inhibitor.

Qian C *et al* (2014) Drug Des Devel Ther 8

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Gossypol: a contraceptive for men.

Coutinho EM (2002) Contraception 65(4)
PubMedID 12020773

Gossypol: prototype of inhibitors targeted to dinucleotide folds.

Vander Jagt DL *et al* (2000) Curr Med Chem 7(4)
PubMedID 10702620

Therapeutic potential of gossypol: an overview.

Keshmiri-Neghab H *et al* (2014) Pharm Biol 52(1)
PubMedID 24073600