

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



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/aprimidinic endonuclease 1) activity. Shows antioxidant, antiviral, antiparasitic, apoptotic and anticancer actions.
-------------------------------	---

Solubility & Handling

Solubility overview	Soluble in ethanol (25mg/ml) or DMF (25mg/ml)
Storage instructions	-20 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	Pogonin; AT101
Molecular Weight	518.56
Chemical structure	The chemical structure of Pogonin (AT101) is a complex polycyclic molecule with multiple hydroxyl groups and a central carbonyl group. It is shown within a rectangular box.
Molecular Formula	C ₃₀ H ₃₀ O ₈
CAS Number	303-45-7
PubChem identifier	3503
SMILES	<chem>CC1=C(C(=C2C(=C1)C(=C(C(=C2C(=O)O)O)O)C(C)C)O)C3=C(C(=C4C(=C3O)C(=C(C(=C4C(C)C)O)O)C=O)C</chem>
Source	Synthetic
InChiKey	QBKSWRVVCFDOT-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

PubMedID [24872679](#)

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](#)
