# Gossypol

## Male antifertility agent

Mixture of ~65% (+)- and ~35% (-)-enantiomers. Male antifertility agent with antispermatogenic activity. Shows antitumor, antiviral and antioxidant actions. Small molecule inhibitor of Bcl-2/Bcl-$X_L$. Induces apoptosis. Synergizes with radiation and chemotherapy *in vitro*. Reversible inhibitor of protein phosphatase 2B (PP2B; calcineurin). Protein kinase C (PKC) inhibitor. Inhibits activities of the mitotic kinesin Eg5 ($IC_{50}$=10.8μM/L). Inhibits RBL-1, 5-lipoxygenase ($IC_{50}$=0.3μM) and 12-lipoxygenase ($IC_{50}$ =0.7μM). Inhibits PAF and leukotriene-induced guinea pig parenchyma contractions. Novel direct-acting inhibitor of calcineurin.

**Citations:** 21 View Online »

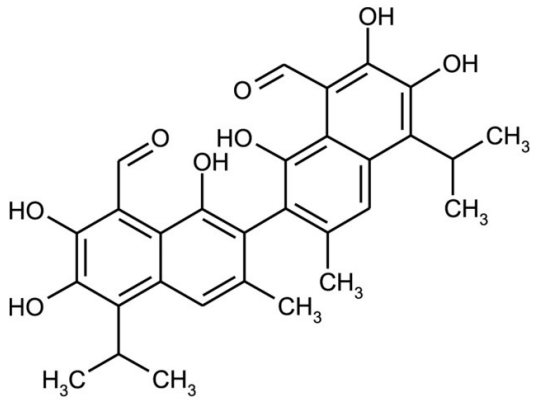
## Ordering Information

Order Online »

| | |
|---|---|
| **BML-EI130-0100** | 100mg |

## Manuals, SDS & CofA

View Online »


OH
OH
O
HO
CH3
CH3
O
OH
HO
CH3
HO
CH3
H3C
CH3

## Handling & Storage

| | |
|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored at -20°C. Stock solutions are stable for up to 1 month at -20°C. Avoid alkaline solutions. |
| **Handling** | Protect from light and oxygen. Keep under inert gas. |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | 2,2'-bis[8-Formyl-1,6,7-trihydroxy-5-isopropyl-3-methylnaphthalene] |
| **Appearance** | Off-white to yellow solid. |
| **CAS** | 303-45-7 |
| **Couple Target** | Kinesin, Lipoxygenase, PKC, Serine/threonine-protein phosphatase |
| **Couple Type** | Inhibitor |
| **Formula** | $C_{30}H_{30}O_8$ |
| **MI** | **14:** 4528 |
| **MW** | 518.6 |
| **Purity** | ≥90% (HPLC) |
| **RTECS** | DU3100000 |
| **Solubility** | Soluble in 100% ethanol (25mg/ml), dimethylformamide (25mg/ml), acetone or DMSO; sparingly soluble in methanol (2mg/ml); insoluble in water. |
| **Source** | Isolated from *Gossypium* genus, Malvaceae. |

**Technical Info / Product Notes**

Note: Product is not sterile.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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