

BVT-0406

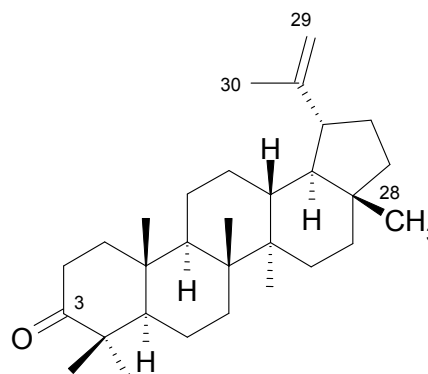
Lupenone

[20(29)-Lupen-3-one]

Formula $C_{30}H_{48}O$
MW 424.7
CAS 1617-70-5

Handling / Storage

Shipping Ambient
Short Term Storage +4°C
Long Term Storage -20°C



Use / Stability

Store, as supplied, at -20°C for up to 1 year.
Store solutions dark and at -20°C.

Hazard / Toxicity

MSDS available upon request.

Product Specifications

Source/Host Isolated from *birch bark (betula alba)*.
Purity Detail >95% (HPLC)
Appearance White solid.
Solubility Soluble in methanol, acetone or DMSO.

Other Product Data

Identity Determined by 1H -NMR.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

Product Description

- Triterpene from the birch bark.
- HIV-1 reverse transcriptase inhibitor ($IC_{50} = 2.1 \mu M$).
- Anticancer compound.
- Protein tyrosin phosphatase 1B inhibitor.
- Anti-diabetic.

Product Specific References

1. Birch bark research and development: P. A. Krasutsky; Nat. Prod. Rep. **2006**, 23, 919-942. (Review)
2. Pharmacological properties of the ubiquitous natural product betulin: S. Alakurtti et al.; Eur. J. Pharm. Sci. **2006**, 29, 1-13. (Review)
3. Pentacyclic triterpenes of the lupane, oleanane and ursane group as tools in cancer therapy: M. N. Laszczyk; Planta Med. **2009**, 75, 1549-1560. (Review)
4. Inhibition of protein tyrosine phosphatase 1B by lupeol and lupenone isolated from sorbus commixta: M. Na et al.; J. Enz. Inhib. Med. Chem. **2009**, 24, 1056-1059.
5. Beneficial health effects of lupeol triterpene, a review of preclinical studies: H. R. Siddigie and M. Saleem; Life Sciences **2011**, 88, 285-293.
6. Application of lupenone in preparation of products for preventing or treating diabetes mellitus: X. Wang et al.; Fam. Zhuan. Shenq. (Chinese) **2012**, CN 102716135 A20121010.

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