

Kuguacin J Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kuguacin J

Catalog No.: CFN92073

Cas No.: 1141453-65-7

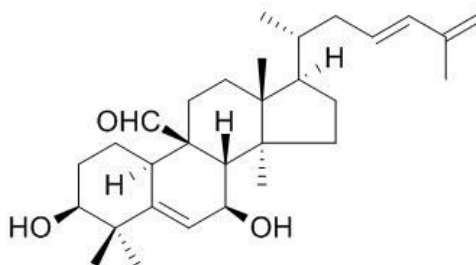
Purity: > 95%

M.F: C₃₀H₄₆O₃

M.W: 454.7

Physical Description: Powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The fruits of *Momordica charantia*.

[Biological Activity or Inhibitors]

Kuguacin J, a triterpenoid from *Momordica charantia* leaf, exerts growth inhibition through

G1 arrest and induction of apoptosis in androgen-dependent human prostate cancer, it is a promising candidate new antineoplastic and chemopreventive agent for androgen-dependent prostate cancer and carcinogenesis.^[1]

Kuguacin J modulates the function of P-glycoprotein (P-gp) by directly interacting at the drug-substrate-binding site, and it appears to be an effective inhibitor of P-gp activity in vitro and thus could be developed as an effective chemosensitizer to treat multidrug-resistant cancers.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]

Not data available.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Pitchakarn P, Suzuki S, Ogawa K, *et al. Cancer Lett.*, 2011, 306(2):142-50.

[2] Pitchakarn P, Ohnuma S, Pintha K, *et al. J. Nutr. Biochem.*, 2012, 23(1):76-84.

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