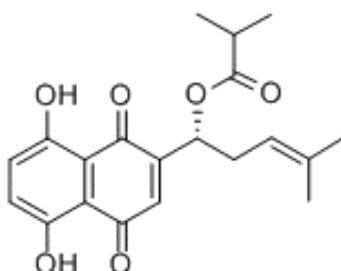


Isobutylshikonin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isobutylshikonin**Catalog No.:** CFN92023**Cas No.:** 52438-12-7**Purity:** > 95%**M.F:** C₂₀H₂₂O₆**M.W:** 358.39**Physical Description:** Powder**Synonyms:** Isobutyroylshikonin; (R)-2-Methyl-propanoic-acid-1-(1,4-dihydro-5,8-dihydroxy-1,4-dioxo-2-naphthalenyl)-4-methyl-3-pentenyl ester.

[Intended Use]

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

[Source]

The roots of *Lithosperma erythrorhizon* Sieb. et Zucc.

[Biological Activity or Inhibitors]

Isobutylshikonin, isolated from *Lithospermum erythrorhizon* Sieb et. Zucc., exhibits obvious antioxidant activities, it exerts very good radical scavenging activities toward ABTS⁺ but shows moderate inhibition of DPPH • . [1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile solution(containing 0.5% glacial acetic acid and 0.3% triethylamine)- water solution(containing 0.5% glacial acetic acid and 0.3% triethylamine), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 516 nm.

[Storage]

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

[References]

[1] Jie H, Weng X, Bi K. *Food Chemistry*, 2008, 106(1):2–10.

[2] Han J, Zhu L M, Wong X C, et al. *Chinese Journal of Pharmaceutical Analysis*, 2008(1):6-8.

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