

Atractyloside potassium salt Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Atractyloside potassium salt

Catalog No.: CFN98561

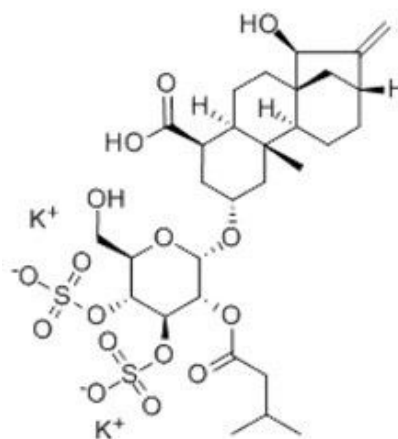
Cas No.: 102130-43-8

Purity: > 98%

M.F: C₃₀H₄₄O₁₆S_{2.2}K

M.W: 802.99

Physical Description: Powder



Synonyms: (2beta,15alpha)-15-Hydroxy-2-[[2-O-(3-methyl-1-oxobutyl)-3,4-di-O-sulfo-beta-D-glucopyranosyl]oxy]-19-norkaur-16-en-18-oic acid dipotassium salt.

[Intended Use]

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

[Source]

The herbs of *Atractylis gummifera*.

[Biological Activity or Inhibitors]

Atractyloside induces release of cathepsin B, has a protease with caspase-processing activity.^[1]

Atractyloside and 5-hydroxydecanoate can block the protective effect of puerarin in isolated rat heart.^[2]

Atractyloside, as it has been proposed for the antibiotic oligomycin, is an inhibitor of the energy-transfer reactions in animal mitochondria.^[3]

Atractyloside poisoning is an infrequent but often fatal form of herbal poisoning, which occurs worldwide but especially in Africa and the Mediterranean regions; the primary mechanism of atractyloside poisoning is known to be inhibition of the mitochondrial ADP transporter.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.01 M NaH₂PO₄ (pH 6), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Vancompernelle K, Herreweghe F V, Pynaert G, *et al. Febs Lett.*, 1998, 438(3):150-8.

[2] Gao Q, Pan H Y, Qiu S, *et al. Life Sci.*, 2006, 79(3):217-24.

[3] Bruni A, Contessa A R, Luciani S. *B B A -Biomembranes*, 1962, 60(2):301-11.

[4] Stewart M J, Steenkamp V. *Ther. Drug Monit*, 2001, 22(6):641-9.

[5] Duo R, Chen Y, Liu Y, *et al. China Journal of Chinese Materia Medica*, 2012, 37(15):
2313-6.

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