Natural Products

ChemFaces

Raddeanin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Raddeanin A

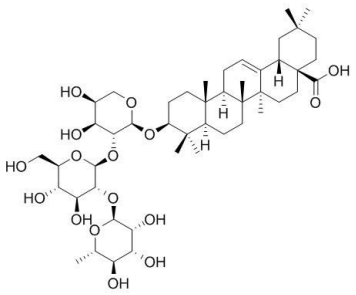
Catalog No.: CFN99985

Cas No.: 89412-79-3

Purity: >=98%

M.F: $C_{47}H_{76}O_{16}$

M.W: 897.11



Physical Description: White powder

Synonyms:(3beta)-3-[(O-6-Deoxy-alpha-L-mannopyranosyl-(1-2)-O-beta-D-glucopyranosyl-(1-2)-alpha-L-arabinopyranosyl)oxy]olean-12-en-28-oic acid;Raddeanin R3; Raddeanoside R3;2)-a-L-arabinopyranosyl)oxy]-,(3b)-.

[Intended Use]

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

[Source]

The roots of *Anemone raddeana Regel.*

[Biological Activity or Inhibitors]

Raddeanin A,a triterpenoid saponin from Anemone raddeana Regel,has good antitumor activity in vitro and in vivo,and would be a potential antitumor medicine.[1]

Raddeanin A can suppress the growth of liver and cells, it also inhibits proliferation of GC cells (BGC-823, SGC-7901 and MKN-28), induces their and inhibits the abilities of invasion, migration and , exhibiting potential to become antitumor drug.[2]

Raddeanin A can significantly inhibit human umbilical vein endothelial cell (HUVEC) proliferation, motility, migration, and tube formation; it also dramatically can reduce angiogenesis in chick embryo chorioallantoic membrane (CAM), restrain the trunk angiogenesis in zebrafish, and suppress angiogenesis and growth of human HCT-15 colorectal cancer xenograft in mice; demonstrating that it is a potential agent or lead candidate for antiangiogenic cancer therapy. [3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][4]

Mobile phase: Meathnol-H2O=70:30 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 207 nm.

[Storage]

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

[References]

[1] Wang M K, Ding L S. *Chinese Journal of Cancer, 2008, 27(9):910-3.*

[2] Xue G, Zou X, Zhou J Y, *et al. Biochem. Bioph.Res. Co., 2013, 439(2):196-202.*

[3] Guan Y Y, Liu H J, Luan X, *et al.Phytomed. Int. J. Phytother. Phytopharmacol., 2015, 22(1):103-10.*

[4] Li C, Pan S, Han W, *et al. Chinese Journal of Pharmaceutical Analysis, 1999, 19(1):22-3.*

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