Natural Products

ChemFaces

Kukoamine B Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Kukoamine B

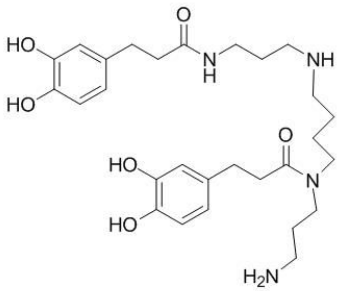
Catalog No.: CFN93216

Cas No.: 164991-67-7

Purity: >=98%

M.F: $C_{28}H_{42}N_4O_6$

M.W: 530.7



Physical Description: Powder

Synonyms: Benzenepropanamide,N-(3-aminopropyl)-N-[4-[[3-[[3-(3,4-dihydroxyphenyl)-1-oxopropyl]amino]propyl]amino]butyl]-3,4-dihydroxy-.

[Intended Use]

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

[Source]

The root bark of *Lycium chinense*.

[Biological Activity or Inhibitors]

Kukoamine B is a potent dual inhibitor for both Lipopolysaccharides (LPS) and oligodeoxynucleotides containing CpG motifs (CpG DNA), LPS and CpG DNA are important pathogenic molecules for the induction of sepsis,are drug targets for sepsis treatment, thus kukoamine B is worthy of further investigation as a potential candidate to treat sepsis.[1]

Kukoamine B inhibits inflammation in septic mice by reducing the concentrations of plasma LPS, decreasing leukocyte sequestration and interfering with NFκB activation, and, therefore, suppressing the proadhesive phenotype of endothelial cells.[2]

Kukoamine B has protective effects against hydrogen peroxide (H2O2) induced cell injury and potential mechanisms in SH-SY5Y cells, it may potentially serve as an agent for prevention of several human neurodegenerative and other disorders caused by oxidative stress. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Acetonitrile-0. 5 % Trifluoroacetic acid in water,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 278 nm.

[Storage]

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

[References]

[1] Liu X, Zheng X, Wang N, *et al. Brit. J. Pharmacol., 2011, 162(6):1274-90.*

[2] Qin W T, Wang X, Shen W C, *et al. Exp. Ther. Med. ,2015, 9(3):725-32.*

[3] Hu X L, Niu Y X, Zhang Q, *et al. Environ.Toxicol. Phar. 2015, 40(1):230-40.*

[4] Zhao X L, Zhang X Y, He C N, *et al. China Pharmaceuticals, 2014,23(12):58-61.*

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