

## Kukoamine A Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Kukoamine A

**Catalog No.:** CFN93215

**Cas No.:** 75288-96-9

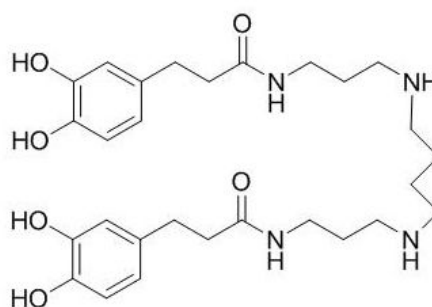
**Purity:** >=98%

**M.F:** C<sub>28</sub>H<sub>42</sub>N<sub>4</sub>O<sub>6</sub>

**M.W:** 374.34

**Physical Description:** Powder

**Synonyms:** N1,N12-bis(dihydrocaffeoyl)spermine; bis-Dihydrocaffeoylspermine.



### [ 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 A shows hypotensive activity .<sup>[1]</sup>

Kukoamine A has antioxidant activity and anti-inflammatory activity.<sup>[2]</sup>

Kukoamine A has the ability of anti-oxidative stress and this effect may partly via blocking N-methyl-d-aspartate receptors (NMDARs) in SH-SY5Y cells, it may have the potential therapeutic interventions for brain injury.<sup>[3]</sup>

Kukoamine A can inhibit human glioblastoma cell growth and migration in vitro and in vivo through apoptosis induction and epithelial-mesenchymal transition attenuation by downregulating expressions of 5-Lipoxygenase (5-LOX) and CCAAT/enhancer binding protein  $\beta$  (C/EBP $\beta$ ), it has anticancer activity.<sup>[4]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Acetonitrile- 0.1%Trifluoroacetic acid in water,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 278 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Funayama S, Yoshida K, Konno C, *et al. Tetrahedron Lett.*, 1980, 21(14):1355-6.

[2] Hadjipavloulitina D, Ganelis T, Athanassopoulos C M, *et al. J. Enzym. Inhib.Med.Ch.*, 2009, 24(5):1188-93.

[3] Hu X L, Gao L Y, Niu Y X, *et al. B.B.A. - Gen. Subjects*, 2014, 1850(2):287-98.

[4] Wang Q, Li H, Sun Z, *et al. Sci. Rep.-UK*, 2016,6:36543.

[5] Li Z, Tong X, Jiang X. *Journal of Pediatric Pharmacy*, 2015(9):48-50.

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