

## Cajanin Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Cajanin

**Catalog No.:** CFN98419

**Cas No.:** 32884-36-9

**Purity:** > 95%

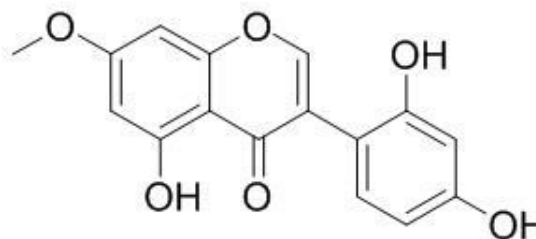
**M.F:** C<sub>16</sub>H<sub>12</sub>O<sub>6</sub>

**M.W:** 300.3

**Physical Description:** Yellow powder

**Synonyms:** 3-(2,4-Dihydroxyphenyl)-5-hydroxy-7-methoxychromen-4-one;

5,2',4'-Trihydroxy-7-methoxyisoflavone.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Kadsura interior*.

### [ Biological Activity or Inhibitors ]

Cajanin has strong mitogenic as well as differentiation-promoting effects on osteoblasts that involved subsequent activation of MEK-Erk and Akt pathways.<sup>[1]</sup>

Cajanin has potential hypolipidemic effects, possibly via up-regulating the ABCA1 protein expression, subsequently resulting in increased macrophage cholesterol efflux and RCT.<sup>[2]</sup>

Cajanin can significantly improve basal glucose uptake in HepG2 cells, its improving effect is concentration dependent, it exhibits effects stronger than that of rosiglitazone, which has been used as an antidiabetic drug.<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol-H<sub>2</sub>O=50:50 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Bhargavan B, Gautam A K, Singh D, *et al. J .Cell Biochem.*, 2009 Oct 1;108(2):388-99.

[2] Guo X R, Luo Q F, Kang X M, *et al. Basic & Clinical Medicine*, 2011,31(6):661-6.

[3] Chen Q C, Zhang W Y, Jin W, *et al. Planta Med.*, 2010,76(1):79-81.

[4] Umehara K, Nemoto K, Kimijima K, *et al. Phytochemistry*, 2008,69(2):546-52.

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