

# Cistanoside A Datasheet

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

## [ Product Information ]

**Name:** Cistanoside A

**Catalog No.:** CFN90526

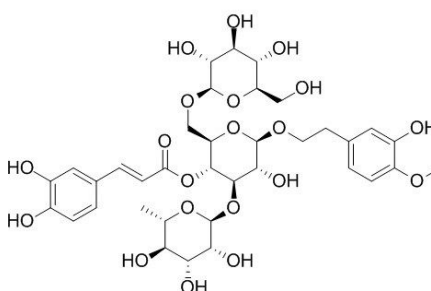
**Cas No.:** 93236-42-1

**Purity:** > 98%

**M.F:** C<sub>36</sub>H<sub>48</sub>O<sub>20</sub>

**M.W:** 800.75

**Physical Description:** Powder



**Synonyms:** 2-(4-Hydroxy-3-methoxyphenyl)ethyl-6-deoxy- $\alpha$ -L-mannopyranosyl-(1 $\rightarrow$ 3)-[ $\alpha$ -L-idopyranosyl-(1 $\rightarrow$ 6)]-4-O-[(2E)-3-(3,4-dihydroxyphenyl)prop-2-enoyl]- $\beta$ -D-glucopyranoside.

## [ Intended Use ]

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

## [ Source ]

The herbs of *Cistanche deserticola* Ma.

## **[ Biological Activity or Inhibitors ]**

Cistanoside A presents protective activities on CCl<sub>4</sub> or alcohol induced hepatotoxicity in mice, the mechanism is involved with increasing free radicals clearing activities, alleviating lipid-overoxidation damage, and improving respiratory chain function in mitochondria.<sup>[1]</sup>

Cistanoside A shows stronger free radical scavenging activities than alpha-tocopherol on 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical and xanthine/xanthine oxidase (XOD) generated superoxide anion radical (O<sub>2</sub><sup>-</sup>).<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile-H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 203 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Luo H, Zhao F, Wang L, *et al. Lat. Am.J. Pharm.*, 2014, 33(5):778-84.

[2] Xiong Q, Kadota S, Tani T, *et al. Biol. Pharm. Bull.*, 1996, 19(12):1580-5.

[3] Yu J, Xie Y Y, Wang Y M, *et al. Chinese Pharmaceutical Journal*, 2013, 15(6):564-70.

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