[Product Information]

Name: Schizandrin A
Catalog No.: CFN99922
Cas No.: 61281-38-7
Purity: >=98%
M.F: C_{24}H_{32}O_{6}
M.W: 416.51

Physical Description: Powder

Synonyms: Dibeno(a,c)cyclooctene, 5,6,7,8-tetrahydro-6,7-dimethyl-1,2,3,10,11,12-hexa
decet; R(+) Dedoxyschisandrin A; R(+) Schizandrin A; WUWEIZISU A.

[Intended Use]

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

[Source]

The seeds of *Schisandra chinensis* (Turcz.) *Baill.*

[Biological Activity or Inhibitors]
Schizandrin A has neuroprotective effect on oxygen and glucose deprivation. Reperfusion-induced cell injury in primary culture of rat cortical neurons, it may act as a candidate therapeutic target drug used for brain ischemia and related diseases.[1] Schizandrin A has the reversal effect of drug resistance in different mechanisms of the two cell lines of K562/ADR and HL60/ADR, it increases the concentration of the drug resistant cells mainly by inhibiting the function and expression of P-gp,MRP1 protein and reducing mdr1, mrp1 gene expression and GSH content, and then it enhances the sensitivity and reversal effects of resistant cell lines.[2] Schizandrin A can exert anti-inflammatory and neuroprotective effects by alleviating microglia-mediated neuroinflammation injury through inhibiting the TRAF6-IKKβ-NF-κB and Jak2-Stat3 signaling pathways. [3] Schizandrin A is able to inhibit CYP3A activity in rat liver microsomes, the inhibition is mixed type, non-competitive and anti-competitive inhibition.[4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][5]
Mobile phase: Acetonitrile-0.1%Phosphoric acid H2O, gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 40 °C;
The wave length of determination: 254 nm.

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

[ References ]


[ Contact ]

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