[ Product Information ]

Name: Carboxyatractyloside
Catalog No.: CFN90756
Cas No.: 77228-71-8
Purity: > 98%
M.F: C_{31}H_{46}O_{18}S_{2}
M.W: 770.8
Physical Description: Powder
Synonyms:

[ Intended Use ]

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

[ Source ]
The fruits of *Xanthium strumarium*. 
[ Biological Activity or Inhibitors]

Carboxyatractyloside is a compound from *xanthium strumarium* and *attractylis gummifera*, it has plant growth inhibiting properties.[1]

Carboxyatractyloside can inhibit rapid exchange of matrix and external adenine nucleotides via the adenine nucleotide translocase; carboxyatractyloside effects on brown-fat mitochondria imply that the adenine nucleotide translocator isoforms ANT1 and ANT2 may be responsible for basal and fatty-acid-induced uncoupling respectively.[2,3]

Carboxyatractyloside increases the effect of oleate on mitochondrial permeability transition.[4]

Carboxyatractyloside, an inhibitor of mitochondrial ADP/ATP translocation, has renal toxicity.[5]

[ Solvent ]

Pyridine, Methanol, Ethanol, DMSO, etc

[ HPLC Method ][6]

Mobile phase: Acetonitrile-0.01 M NaH₂PO₄ (pH 6), gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 35 °C;
The wavelength of determination: 203 nm.

[ Storage ]

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

[ References ]


[ Contact ]

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