[ Product Information ]

Name: Fraxetin  
Catalog No.: CFN99113  
Cas No.: 574-84-5  
Purity: >=98%  
M.F: C_{10}H_{8}O_{5}  
M.W: 208.17  
Physical Description: Cryst.  
Synonyms: 7,8-Dihydroxy-6-methoxycromen-2-one; 7,8-Dihydroxy-6-methoxy-2H-1-benzopyran-2-one.

[ Intended Use ]

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

[ Source ]

The bark of Fraxinus brongeana DC.

[ Biological Activity or Inhibitors ]
Fraxetin has dual-antioxidative functions, it has direct protective properties against low-density lipoprotein oxidation at lower concentrations, and higher concentrations of fraxetin induce antioxidant enzymes via Nrf2/ARE activation.[1]
Fraxetin prevents rotenone-induced apoptosis by induction of endogenous glutathione in human neuroblastoma cells.[2]
Fraxetin has antihyperglycemic effect on hepatic key enzymes of carbohydrate metabolism in streptozotocin-induced diabetic rats.[3]
Fraxetin has inhibitory effect on various bacterial strains, it can disrupt nucleic acid and protein synthesis by preventing topoisomerase from binding to DNA.[4]
Fraxetin exhibits potent protective effects against CCl4 induced oxidative stress and hepatic fibrosis.[5]

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

[ HPLC Method ][6 ]
Mobile phase: Methanol- 0.2% Acetic acid in water=43:57 ;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 350 nm.

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

[ References ]


[Contact]

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