

Fraxetin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Fraxetin

Catalog No.: CFN99113

Cas No.: 574-84-5

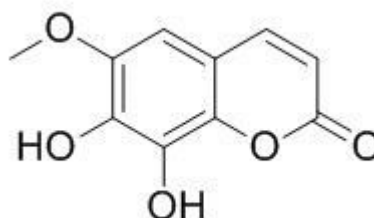
Purity: >=98%

M.F: C₁₀H₈O₅

M.W: 208.17

Physical Description: Cryst.

Synonyms: 7,8-Dihydroxy-6-methoxychromen-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 brngeana* 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]

[1] Thuong P T, Pokharel Y R, Mooyeol L, *et al. Biol. Pharm. Bull.*,2009, 32(9):1527-32.

[2] Sánchezreus M I, Peinado I I, Molinajiménez M F, *et al. Neurosci. Res.*, 2005, 53(1): 48-56.

- [3] Murali R, Srinivasan S, Ashokkumar N. *Biochimie*, 2013, 95(10):1848-54.
- [4] Wang H, Zou D, Xie K, *et al. Mol. Med. Rep.*, 2014 Nov;10(5): 2341-5.
- [5] Chen X, Ying X, Zhang W, *et al. Int. Immunopharmacol.*, 2013 Nov;17(3):543-7.
- [6] Yu J, Zhao D, Fu Y, *et al. Journal of Northeast Forestry University*, 2011, 39(3):106-56.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com