

Fraxin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Fraxin

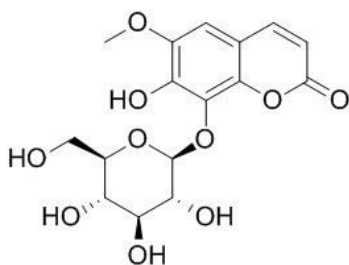
Catalog No.: CFN99747

Cas No.: 524-30-1

Purity: >=98%

M.F: C₁₆H₁₈O₁₀

M.W: 370.32



Physical Description: White powder

Synonyms: Fraxetin-8-O-glucoside; 8-(beta-D-glucopyranosyloxy)-7-hydroxy-6-methoxy-2H-1-benzopyran-2-one; 7,8-Dihydroxy-6-methoxycoumarin-8-β-D-glucopyranoside.

[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]

Fraxin shows free radical scavenging effect at high concentration (0.5 mM) and cell protective effect against H₂O₂-mediated oxidative stress; it can recover viability of human umbilical vein endothelial cells (HUVECs) damaged by H₂O₂-treatment and can reduce the lipid peroxidation and the internal reactive oxygen species level elevated by H₂O₂ treatment.^[1]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[2]

Mobile phase: 1% Acetic acid H₂O-Methanol =84:16 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 340 nm.

[Storage]

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

[References]

[1] Whang W K, Park H S, Ham I, *et al. Exp. Mol. Med.*, 2005, 37(37):436-46.

[2] G. Stanić, B. Jurišić, D. Brkić. *Croat. Chem. Acta*, 1999, 72(4):827-34.

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