*Natural Products*

ChemFaces

# Tamarixetin Datasheet

4th Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Tamarixetin

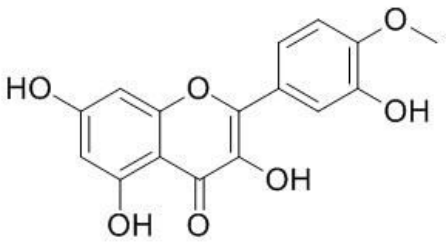
**Catalog No.:** CFN97027

**Cas No.:** 603-61-2

**Purity:** > 95%

**M.F:** $C_{16}H_{12}O_7$

**M.W:** 316.26




**Physical Description:** Yellow powder

**Synonyms:** 4'-Methoxy-3,3',5,7-tetrahydroxy-flavone; 4'-Methoxyquercetin; 3,5,7-Trihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4-benzopyrone.

## [ Intended Use ]

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

## [ Source ]

The herbs of *Heracleum stenopterum.*

## [ Biological Activity or Inhibitors]

Tamarixetin has cytotoxic against leukemia cells and in particular P-glycoprotein-overexpressing K562/ADR cells, it inhibits proliferation in a concentration- and time-dependent manner, induces apoptosis and blocked cell cycle progression at G2 -M phase.[1]

Tamarixetin has vasodilator effects in rat isolated vessels.[2]

## [ Solvent ]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## [ HPLC Method ][3]

Mobile phase: Methanol- 0.15% Aqueous formic acid solution ( pH: 2.8),gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 254 nm.

## [ Storage ]

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

## [ References ]

[1] Nicolini F, Burmistrova O, Marrero M T, *et al. Mol. Carcinogen., 2014, 53(12):939-50.*

[2] Perez-Vizcaino F, Ibarra M, Lopez-Lopez G, *et al. Brit. J. Pharmacol., 2000, 131: U11-U11.*

[3] Xu F Q, Feng Y Y, Yan B L. *J.Med. Plant Res., 2014, 8(18):664-8.*

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