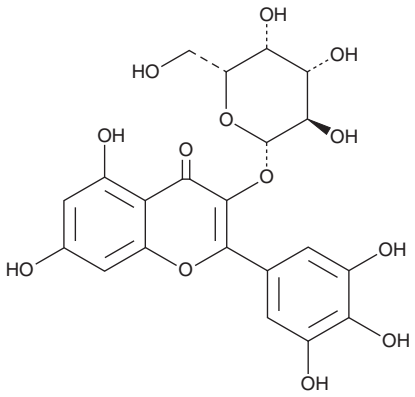
PRODUCT INFORMATION

Myricetin 3-galactoside

Item No. 36467

CAS Registry No.:	15648-86-9
Formal Name:	3-(β-D-galactopyranosyloxy)-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one
Synonyms:	Myricetin 3-O-β-galactopyranoside, Myricetin 3-O-β-D-galactopyranoside, Myricetin 3-O-galactoside, Myricetin 3-β-D-galactoside
MF:	$C_{21}H_{20}O_{13}$
FW:	480.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Myrica rubra*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Myricetin 3-galactoside is supplied as a solid. A stock solution may be made by dissolving the myricetin 3-galactoside in the solvent of choice, which should be purged with an inert gas. Myricetin 3-galactoside is soluble in acetone, chloroform, dichloromethane, ethyl acetate and DMSO.

Description

Myricetin 3-galactoside is a flavonoid that has been found in *M. communis* and has diverse biological activities.[1,2] It inhibits xanthine oxidase in a cell-free assay when used at a concentration of 100 µg/ml.[1] Myricetin 3-galactoside is cytotoxic to K562 cells (IC_{50} = 220 µg/ml) and inhibits hydrogen peroxide-induced malondialdehyde (MDA) formation in the same cells when used at concentrations of 110, 220, and 440 µg/ml.[1] *In vivo*, myricetin 3-galactoside (0.26 and 0.78 mg/kg) reduces carrageenan-induced paw edema in wild-type but not *nos2*$^{-/-}$ mice.[2] It also reduces formalin-induced paw licking in mice.

References

1. Hayder, N., Bouhlel, I., Skandrani, I., *et al.* In vitro antioxidant and antigenotoxic potentials of myricetin-3-*o*-galactoside and myricetin-3-*o*-rhamnoside from *Myrtus communis*: modulation of expression of genes involved in cell defence system using cDNA microarray. *Toxicol. In Vitro* **22(3)**, 567-581 (2008).
2. de Oliveira Azevedo, A., Campos, J.J., de Souza, G.G., *et al.* Antinociceptive and anti-inflammatory effects of myricetin 3-O-β-galactoside isolated from *Davilla elliptica*: Involvement of the nitrergic system. *J. Nat. Med.* **69(4)**, 487-493 (2015).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM