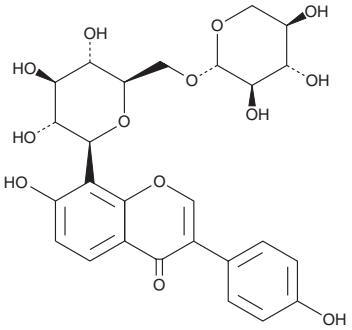
PRODUCT INFORMATION

Puerarin 6”-O-xyloside

Item No. 46083

CAS Registry No.:	114240-18-5
Formal Name:	7-hydroxy-3-(4-hydroxyphenyl)-8-(6-O-β-D-xylopyranosyl-β-D-glucopyranosyl)-4H-1-benzopyran-4-one
Synonyms:	P6OX, POS, PRX, PXY
MF:	$C_{26}H_{28}O_{13}$
FW:	548.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Pueraria lobata*



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

Laboratory Procedures

Puerarin 6”-O-xyloside is supplied as a solid. A stock solution may be made by dissolving the puerarin 6”-O-xyloside in the solvent of choice, which should be purged with an inert gas. Puerarin 6”-O-xyloside is soluble (≥10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of puerarin 6”-O-xyloside can be prepared by directly dissolving the solid in aqueous buffers. Puerarin 6”-O-xyloside is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Puerarin 6”-O-xyloside is a flavonoid glycoside that has been found in *P. lobata* and has diverse biological activities.[1-3] It induces apoptosis in A549 lung cancer cells and reduces tumor volume in an A549 mouse xenograft model when administered at a dose of 40 mg/kg.[1] Puerarin 6”-O-xyloside decreases PPARα and carnitine palmitoyltransferase 1A (CPT1A) levels in HepG2 cells stimulated by oleic acid (Item Nos. 90260 | 24659) and palmitic acid (Item Nos. 10006627 | 43561).[2] It reduces serum triglyceride, total cholesterol, and LDL-C levels, fasting blood glucose levels, lipid droplet accumulation, and body weight in a model of menopause using ovariectomized mice fed a high-fat diet (HFD). Puerarin 6”-O-xyloside induces proliferation of isolated rat osteocytes, increases serum calcium, phosphorus, alkaline phosphatase (ALP), and osteoprotegerin levels, and increases thickening of the trabecular bone in a model of osteoporosis using ovariectomized mice.[3]

References

1. Chen, T., Chen, H., Wang, Y., *et al. In vitro* and *in vivo* antitumour activities of puerarin 6″-*O*-xyloside on human lung carcinoma A549 cell line via the induction of the mitochondria-mediated apoptosis pathway. *Pharm. Biol.* **54(9)**, 1793-1799 (2016).
2. Wang, D., You, Y., Luo, T., *et al.* Puerarin 6″-O-xyloside improves postmenopausal lipid metabolic disorders via the PPARα-mediated FAO pathway. *Phytomedicine* **152:157833**, (2026).
3. Li, H., Chen, B., Pang, G., *et al.* Anti-osteoporotic activity of puerarin 6”-*O*-xyloside on ovariectomized mice and its potential mechanism. *Pharm. Biol.* **54(1)**, 111-117 (2016).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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