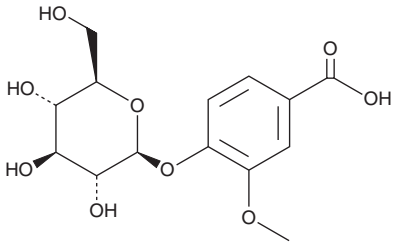
PRODUCT INFORMATION

Vanillic Acid 4-β-D-glucopyranoside

Item No. 19759

CAS Registry No.:	32142-31-7
Formal Name:	4-(β-D-glucopyranosyloxy)-3-methoxy-benzoic acid
MF:	$C_{14}H_{18}O_9$
FW:	330.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 247, 288 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Vanillic acid 4-β-D-glucopyranoside is supplied as a crystalline solid. A stock solution may be made by dissolving the vanillic acid 4-β-D-glucopyranoside in the solvent of choice, which should be purged with an inert gas. Vanillic acid 4-β-D-glucopyranoside is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of vanillic acid 4-β-D-glucopyranoside in these solvents is approximately 20 and 10 mg/ml, respectively.

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 vanillic acid 4-β-D-glucopyranoside can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of vanillic acid 4-β-D-glucopyranoside in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Vanillic Acid 4-β-D-glucopyranoside can be isolated from the fruits of *C. annuum* as well as the leaves of various additional plants. It belongs to a class of compounds known as hydrolyzable tannins and can be phytotoxic against different species.[1]

Reference

1. Mkohtar, M., Soukup, J., Donato, P., *et al.* Determination of the polyphenolic content of a *C. annuum* L. extract by liquid chromatography coupled to photodiode array and mass spectrometry detection and evaluation of its biological activity. *J. Sep. Sci.* **38(2)**, 171-178 (2015).

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