

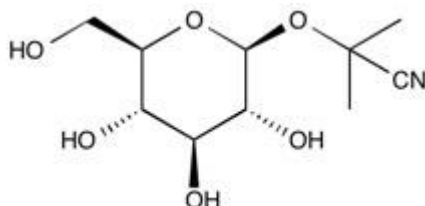
Catalog # 10-2713

Linamarin

CAS# 554-35-8

2-(β -D-Glucopyranosyloxy)-2-methyl-propanenitrile

Lot # X106520



Pharmacology: A cyanogenic glycoside defense compound produced by plants and insects.¹ Found in cassava.² Displays neurotoxic effects in rats.² Induces memory and cognition deficits in rodents.³

- 1) Jensen *et al.* (2011), *Convergent evolution in biosynthesis of cyanogenic defense compounds in plants*; Nat. Commun., **2** 273
- 2) Rivadeneyra *et al.* (2013), *Neurotoxic effect of linamarin in rats associated with cassava (*Manihot esculenta* Crantz) consumption*; Food Chem. Toxicol., **59** 230
- 3) Kimani *et al.* (2014), *Memory deficits associated with sublethal cyanide poisoning relative to cyanate toxicity in rodents*; Metab. Brain Dis., **29** 105

PHYSICAL DATA

Molecular Weight:	247.25
Molecular Formula:	C ₁₀ H ₁₇ NO ₆
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO, Methanol, or Ethanol
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO, methanol or ethanol may be stored at -20°C for up to 1 month.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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