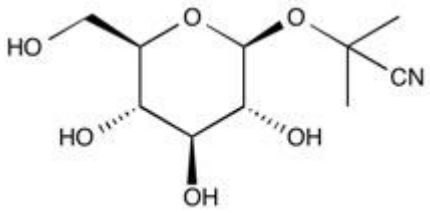
Catalog # 10-2713

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 if 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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