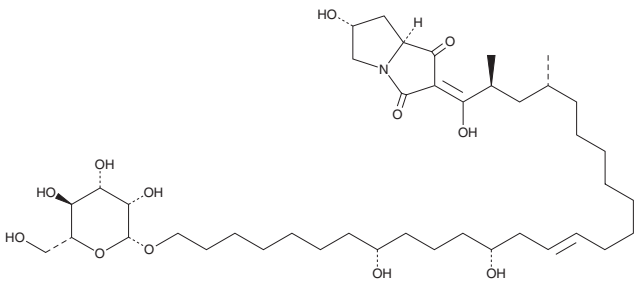
PRODUCT INFORMATION

Burnettramic Acid A

Item No. 33021

CAS Registry No.:	2334483-46-2
Formal Name:	(2Z,6R,7aS)-tetrahydro-6-hydroxy-2-[(2S,4R,12E,15R,19R)-1,15,19-trihydroxy-26-(β-D-mannopyranosyloxy)-2,4-dimethyl-14-hexacosen-1-ylidene]-1H-pyrrolizine-1,3(2H)-dione
MF:	$C_{41}H_{71}NO_{12}$
FW:	770.0
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Fungus/*Aspergillus burnettii*



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

Laboratory Procedures

Burnettramic acid A is supplied as a solid. A stock solution may be made by dissolving the burnettramic acid A in the solvent of choice, which should be purged with an inert gas. Burnettramic acid A is slightly soluble (0.1-1 mg/ml) in acetonitrile and sparingly soluble (1-10 mg/ml) in methanol and DMSO.

Description

Burnettramic acid A is a fungal metabolite originally isolated from *A. burnettii* that has diverse biological activities.[1] It is active against *B. subtilis*, *S. aureus*, *C. albicans*, and *S. cerevisiae* (IC_{50}s = 2.3, 5.9, 0.5, and 0.2 µg/ml, respectively). Burnettramic acid A is cytotoxic to NS-1 murine myeloma cells but not neonatal foreskin fibroblasts (IC_{50}s = 13.8 and >100 µg/ml, respectively).

Reference

1. Li, H., Gilchrist, C.L.M., Lacey, H.J., *et al*. Discovery and heterologous biosynthesis of the burnettramic acids: Rare PKS-NRPS-derived bolaamphiphilic pyrrolizidinediones from an Australian fungus, *Aspergillus burnettii*. *Org. Lett.* **21(5)**, 1287-1291 (2019).

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