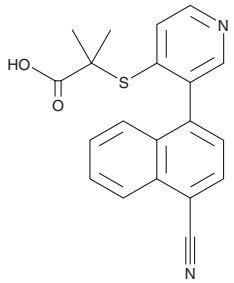
PRODUCT INFORMATION

Verinurad

Item No. 29667

CAS Registry No.:	1352792-74-5
Formal Name:	2-[[3-(4-cyano-1-naphthalenyl)-4-pyridinyl]thio]-2-methyl-propanoic acid
MF:	$C_{20}H_{16}N_2O_2S$
FW:	348.4
Purity:	≥98%
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

Verinurad is supplied as a crystalline solid. A stock solution may be made by dissolving the verinurad in the solvent of choice, which should be purged with an inert gas. Verinurad is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of verinurad in these solvents is approximately 30 mg/ml.

Verinurad is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, verinurad should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Verinurad has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Verinurad is an inhibitor of urate anion transporter 1 (URAT1; IC_{50} = 0.025 µM for the human transporter).[1] It is selective for human URAT1 over rat URAT1 (IC_{50} = 41 µM), as well as human organic anion transporter 1 (OAT1) and OAT4 (IC_{50}s = 4.6 and 5.9 µM, respectively).

Reference

1. Tan, P.K., Liu, S., Gunic, E., *et al*. Discovery and characterization of verinurad, a potent and specific inhibitor of URAT1 for the treatment of hyperuricemia and gout. *Sci. Rep.* **7(1)**, 665 (2017).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM