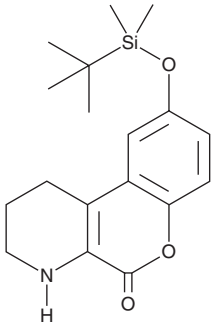
PRODUCT INFORMATION

kb-NB77-78

Item No. 21562



CAS Registry No.:	1350622-33-1
Formal Name:	9-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,2,3,4-tetrahydro-5H-[1]benzopyrano[3,4-b]pyridin-5-one
MF:	$C_{18}H_{25}NO_3Si$
FW:	331.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 214, 252, 346 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

kb-NB77-78 is supplied as a crystalline solid. A stock solution may be made by dissolving the kb-NB77-78 in the solvent of choice, which should be purged with an inert gas. kb-NB77-78 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of kb-NB77-78 in these solvents is approximately 20, 25, and 30 mg/ml, respectively.

kb-NB77-78 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, kb-NB77-78 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. kb-NB77-78 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

kb-NB77-78 is an inactive analog of the protein kinase D (PKD) inhibitor CID755673 (Item No. 15924).[1] It does not bind PKD1 in a fluorescence polarization assay and has no effect on PKD1 phosphorylation in LNCaP cancer cells.

Reference

1. George, K.M., Frantz, M.C., Bravo-Altamirano, K., *et al.* Design, synthesis, and biological evaluation of PKD inhibitors. *Pharmaceutics* **3(2)**, 186-228 (2011).

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