PRODUCT INFORMATION



XD14

Item No. 30740

CAS Registry No.: Formal Name:	1370888-71-3 4-acetyl-N-[5-[(diethylamino) sulfonyl]-2-hydroxyphenyl]-3- ethyl-5-methyl-1H-pyrrole-2- carboxamide	
MF:	C ₂₀ H ₂₇ N ₃ O ₅ S	
FW:	421.5	N S
Purity:	≥95%	
UV/Vis.:	λ _{max} : 238, 307 nm	H O [_] [
Supplied as:	A crystalline solid	HO
Storage:	-20°C	
Stability:	≥4 years	

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

Laboratory Procedures

XD14 is supplied as a crystalline solid. A stock solution may be made by dissolving the XD14 in the solvent of choice, which should be purged with an inert gas. XD14 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of XD14 in these solvents is approximately 30 mg/ml.

XD14 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, XD14 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. XD14 has a solubility of approximately 0.12 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

XD14 is a bromodomain-containing protein (BRD) inhibitor.¹ It binds to BRD2, -3, and -4 (K_{ds} = 170, 380, and 160 nM, respectively) and inhibits the growth of HL-60 cells (GI₅₀ = ~20 μ M). XD14 (10 μ M) also inhibits the growth of SR, K562, and MOLT-4 leukemia cells, as well as T47D breast, UO-31 renal, IGROV-1 ovarian, and KM12 colon cancer cells in vitro.

Reference

1. Lucas, X., Wohlwend, D., Hügle, M., et al. 4-Acyl pyrroles: Mimicking acetylated lysines in histone code reading. Angew. Chem. Int. Ed. Engl. 52(52), 14055-14059 (2013).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

SAFETY DATA This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Suyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/08/2022

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