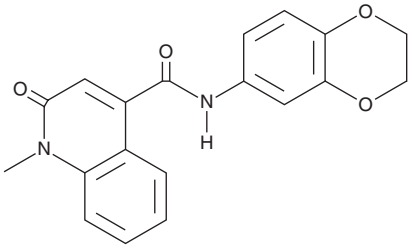
PRODUCT INFORMATION

CeMMEC13

Item No. 20224

CAS Registry No.:	1790895-25-8
Formal Name:	N-(2,3-dihydro-1,4-benzodioxin-6-yl)-1,2-dihydro-1-methyl-2-oxo-4-quinolinecarboxamide
MF:	$C_{19}H_{16}N_2O_4$
FW:	336.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 211, 337 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

CeMMEC13 is supplied as a crystalline solid. A stock solution may be made by dissolving the CeMMEC13 in the solvent of choice, which should be purged with an inert gas. CeMMEC13 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CeMMEC13 in these solvents is approximately 20 mg/ml.

CeMMEC13 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CeMMEC13 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CeMMEC13 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

CeMMEC13 is an isoquinolinone that selectively inhibits the second bromodomain of TAF1 (IC_{50} = 2.1 µM).[1] It does not bind to bromodomains of BRD4, BRD9, or CREBBP.[1] CeMMEC13 synergizes with (+)-JQ1 (Item No. 11187) to inhibit the proliferation of THP-1 and H23 lung adenocarcinoma cells.[1]

Reference

1. Sdelci, S., Lardeau, C.-H., Tallant, C., *et al.* Mapping the chemical chromatin reactivation landscape identifies BRD4-TAF1 cross-talk. *Nat. Chem. Biol.* **12(7)**, 504-510 (2016).

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