

PRODUCT INFORMATION



CeMMEC1

Item No. 19956

CAS Registry No.: 440662-09-9

Formal Name: N-(2,3-dihydro-1,4-benzodioxin-6-yl)-1,2-dihydro-2-methyl-1-oxo-4-isoquinolinecarboxamide

MF: $C_{19}H_{16}N_2O_4$

FW: 336.3

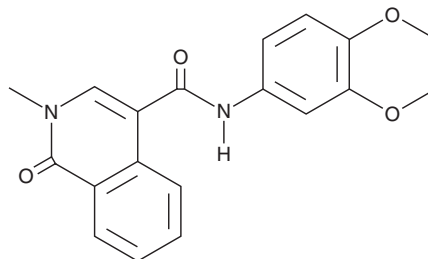
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 212, 258, 296 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CeMMEC1 is supplied as a crystalline solid. A stock solution may be made by dissolving the CeMMEC1 in the solvent of choice. CeMMEC1 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of CeMMEC1 in these solvents is approximately 20 mg/ml.

CeMMEC1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CeMMEC1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CeMMEC1 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

CeMMEC1 is an N-methylisoquinolinone that inhibits the second bromodomain of TAF1 ($K_d = 1.8 \mu\text{M}$; $\text{IC}_{50} = 0.9 \mu\text{M}$).¹ It does not bind to either the first or second bromodomain of BRD4.¹ This compound 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).

WARNING

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

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.

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