bio-techne
TOCRIS

Print Date: Apr 16th 2024

Certificate of Analysis

www.tocris.com

Product Name: **JQAD1** **Catalog No.: 7682** **Batch No.: 1**

CAS Number: 2417097-18-6

IUPAC Name: 12-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisoindolin-5-yl)amino)-*N*-((*R*)-3'-(2-((4-fluorobenzyl)((*S*)-1,1,1-trifluoropropan-2-yl)amino)-2-oxoethyl)-2',4'-dioxo-2,3-dihydrospiro[indene-1,5'-oxazolidin]-5-yl)dodecanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{48}H_{52}F_4N_6O_9.¼H_2O$

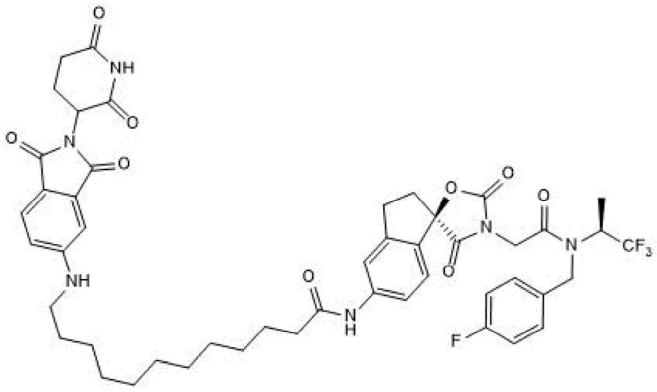
Batch Molecular Weight: 937.47

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.5	5.64	8.96
Found	61.09	5.71	8.92

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Description:

JQAD1 is a potent and selective histone acetyltransferase EP300 Degrader (PROTAC®; DC_{50} ≤ 31.6 nM); comprises an EP300 inhibitor, A485 (Cat. No. 6387), joined by a linker to a cereblon E3 ligase ligand. JQAD1 brings about degradation of EP300 in neuroblastoma cell lines in a proteasome-dependent manner. JQAD1 suppresses both H3K27ac and EP300 expression levels and induces apoptosis. JQAD1 suppresses tumor growth in NSG mice xenografted with Kelly cells. CRC and MYCN genes are downregulated in tumors treated with JQAD1. JQAD1 exhibits no significant effect on coactivator CBP at concentrations inducing EP300 degradation. p300 antibod... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

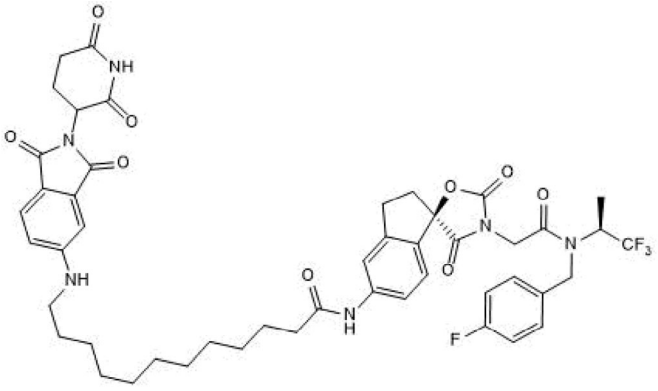
Batch Molecular Formula: $C_{48}H_{52}F_4N_6O_9.¼H_2O$

Batch Molecular Weight: 937.47

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

References:

Durbin *et al* (2021) EP300 selectively controls the enhancer landscape of MYCN-amplified neuroblastoma. Cancer Discov.. PMID: 34772733.