

Product Name: iP300w

Catalog No.: 7270

Batch No.: 2

CAS Number: 1889284-33-6

IUPAC Name: (1'S,3'R)-3'-Fluoro-N-[(4-fluorophenyl)methyl]-2',3'-dihydro-5'-[1-[2-(methylamino)-2-oxoethyl]-1H-pyrazol-4-yl]-2,5-dioxo-N-[(1S)-2,2,2-trifluoro-1-methylethyl]spiro[imidazolidine-4,1'-[1H]indene]-1-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₇F₅N₆O₄ · ½H₂O

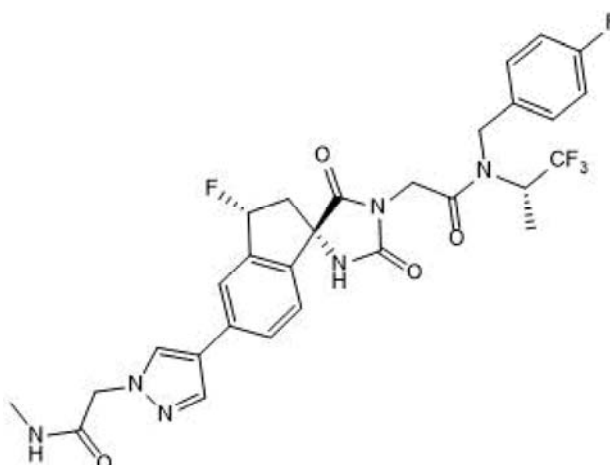
Batch Molecular Weight: 627.56

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity

Chiral HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.5	4.5	13.39
Found	55.36	4.47	13.38

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Description:

iP300w is a potent p300/CBP inhibitor. iP300w inhibits p300-mediated H3K9 acetylation (IC₅₀ = 33 nM). The cytotoxicity of DUX4 and overexpression of DUX4 target genes are inhibited by iP300w in vitro. In addition, the compound inhibits DUX4-mediated transcription in an animal model of facioscapulohumeral muscular dystrophy (FSHD). iP300w reduces viability and inhibits proliferation of CIC-DUX4 sarcoma (CDS) cells in vitro but not pancreatic or colorectal cancer cell lines. The compound suppresses tumor growth in a mouse CDS xenograft model. iP300w negative control iP300v (Cat. No. 7584) also available. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

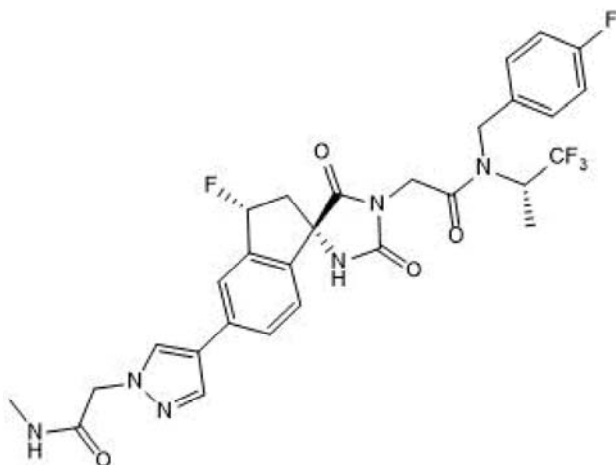
Batch Molecular Formula: C₂₉H₂₇F₅N₆O₄ · ½H₂O

Batch Molecular Weight: 627.56

Physical Appearance: Off White 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. Our standard recommendations are:

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.

References:

Bosnakovski et al (2021) Inactivation of the CIC-DUX4 oncogene through P300/CBP inhibition, a therapeutic approach for CIC-DUX4 sarcoma. *Oncogenesis* **10** 68.

Bosnakovski et al (2019) A novel P300 inhibitor reverses DUX4-mediated global histone H3 hyperacetylation, target gene expression, and cell death. *Sci.Adv.* **5** eaaw7781. PMID: 31535023.

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