

Product Name: iP300w

Catalog No.: 7270

Batch No.: 1

IUPAC Name: 2-[3'-Fluoro-5'-[1-[2-(methylamino)-2-oxoethyl]-1*H*-pyrazol-4-yl]-2,5-dioxo-2',3'-dihydrospiro(imidazolidine-4,1'-inden)-1-yl]-*N*-(4-fluorobenzyl)-*N*-(1,1,1-trifluoropropane-2-yl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₇F₅N₆O₄·½H₂O

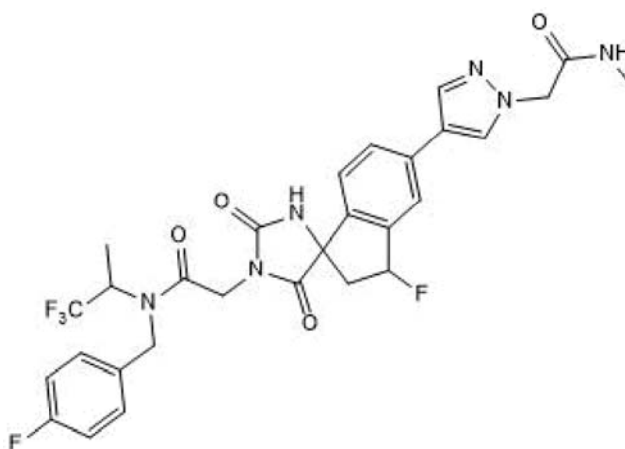
Batch Molecular Weight: 627.58

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

Chiral HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.5	4.5	13.39
Found	55.09	4.48	13.55

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Description:

Potent p300/CBP inhibitor. Inhibits p300-mediated H3K9 acetylation (IC₅₀ = 33 nM). Inhibits cytotoxicity of DUX4 and over expression of DUX4 target genes in vitro. Also impairs DUX4-mediated transcription in an animal model of facioscapulohumeral muscular dystrophy (FSHD).

Physical and Chemical Properties:

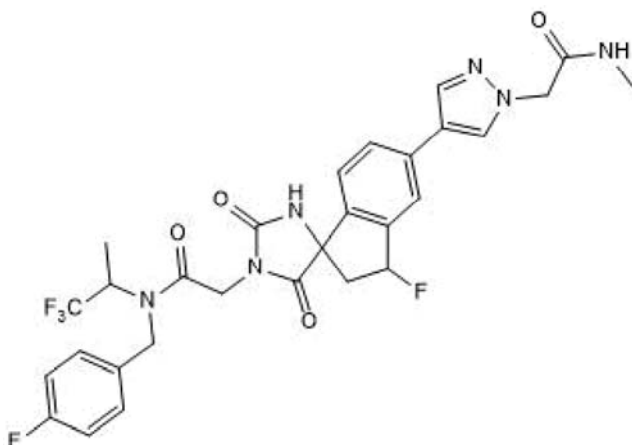
Batch Molecular Formula: C₂₉H₂₇F₅N₆O₄·½H₂O

Batch Molecular Weight: 627.58

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

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