

Product Name: RGFP 966

Catalog No.: 6728

Batch No.: 1

CAS Number: 1357389-11-7

IUPAC Name: (2E)-N-(2-Amino-4-fluorophenyl)-3-[1-(3-phenyl-2-propen-1-yl)-1H-pyrazol-4-yl]-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉FN₄O.½H₂O

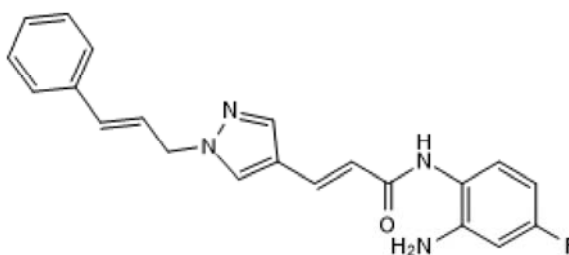
Batch Molecular Weight: 371.41

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	67.91	5.43	15.08
Found	67.8	5.23	15.08

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

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Description:

RGFP 966 is a potent and selective HDAC3 inhibitor (IC₅₀ = 80 nM); exhibits no effect on other HDAC (up to 15 μM). RGFP 966 reduces the frequency of striatal CAG repeat expansions in mouse models of Huntington's disease and reduces mHTT accumulation. RGFP 966 enhances long-term object-location memory in vivo.

Physical and Chemical Properties:

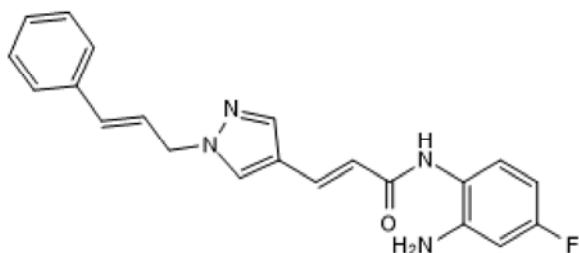
Batch Molecular Formula: C₂₁H₁₉FN₄O.½H₂O

Batch Molecular Weight: 371.41

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Malvaez *et al* (2013) HDAC3-selective inhibitor enhances extinction of cocaine-seeking behavior in a persistent manner. *Proc.Natl.Acad.Sci.USA.* **110** 2647. PMID: 23297220.

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.

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North America

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Europe Middle East Africa

Tel: +44 (0)1235 529449

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www.tocris.com/distributors

Tel:+1 612 379 2956