

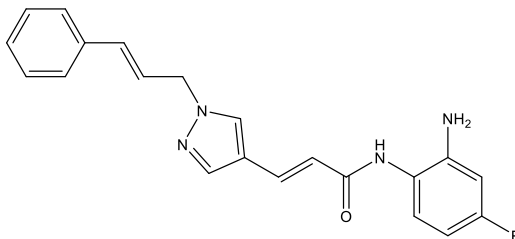
Catalog # 10-4029

RGFP966

CAS# 1357389-11-7

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

Lot # FBS1098



RGFP966 is a selective inhibitor of HDAC3 ($IC_{50} = 80$ nM, no other HDACs inhibited @ $15\mu\text{M}$).¹ It facilitates the extinction of cocaine-seeking behavior in mice and transforms subthreshold learning events into robust long-term memory, suggesting a potential therapeutic target for memory enhancement and neurodegenerative diseases.¹⁻⁵

- 1) Malvaez *et al.* (2013), *HDAC3-selective inhibitor enhances extinction of cocaine-seeking behavior in a persistent manner*; Proc.Natl.Acad.Sci.USA **110** 2647
- 2) Bieszczad *et al.* (2015), *Histone Deacetylase Inhibition via RGFP966 Releases the Brakes on Sensory Cortical Plasticity and the Specificity of Memory Formation*; J.Neurosci. **35** 13124
- 3) Zhu *et al.* (2017), *HDAC3 negatively regulates spatial memory in a mouse model of Alzheimers disease*; Aging Cell **16** 1073
- 4) Haiqun *et al.* (2016), *The Effects of Pharmacological Inhibition of Histone Deacetylase 3 (HDAC3) in Huntington's Disease Mice*; PLoS One 0152498
- 5) Janczura *et al.* (2018), *Inhibition of HDAC3 reverses Alzheimer's disease-related pathologies in vitro and in the 3xTg-AD mouse model*; Proc.Natl.Acad.Sci.USA **115** E11148

PHYSICAL DATA

Molecular Weight:	362.40
Molecular Formula:	C ₂₁ H ₁₉ FN ₄ O
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month.

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