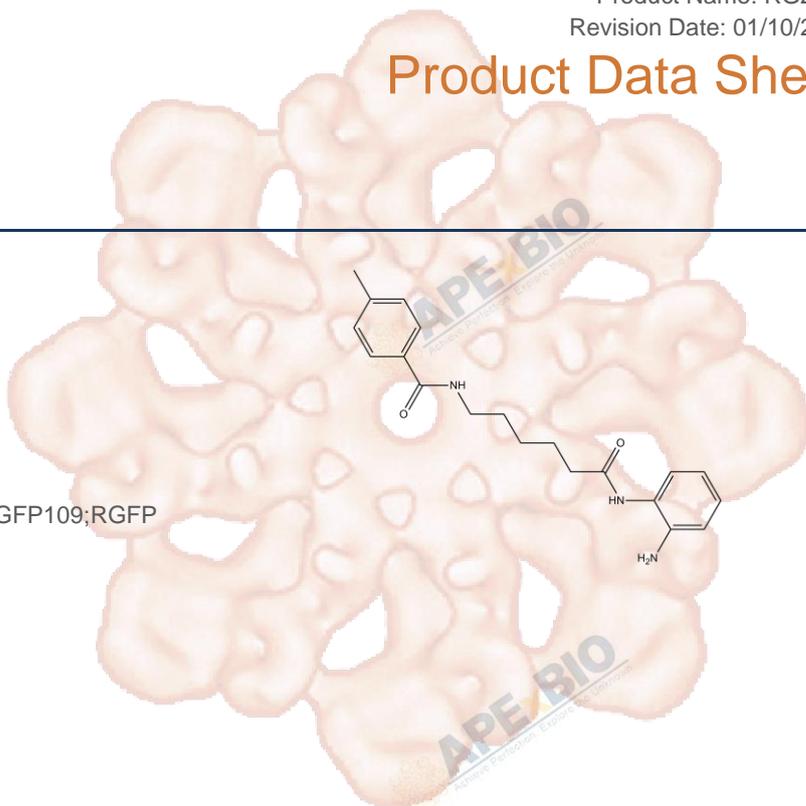


Product Data Sheet

RG2833

Cat. No.:	A3761
CAS No.:	1215493-56-3
Formula:	C ₂₀ H ₂₅ N ₃ O ₂
M.Wt:	339.43
Synonyms:	RG 2833;RG-2833;RGFP-109;RGFP109;RGFP 109
Target:	DNA Damage/DNA Repair
Pathway:	HDAC
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥16.95 mg/mL in DMSO; ≥8.05 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
		1 mM	2.9461 mL	14.7306 mL	29.4612 mL
		5 mM	0.5892 mL	2.9461 mL	5.8922 mL
		10 mM	0.2946 mL	1.4731 mL	2.9461 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Brain-penetrant HDAC inhibitor

IC₅₀ & Target

60 nM (HDAC1), 50 nM (HDAC3)

In Vitro

Cell Viability Assay

Cell Line: Unstimulated peripheral blood mononuclear cells (PBMC) from FRDA Patients.

Preparation method: The solubility of this compound in DMSO is >17mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes

		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
	Reacting conditions:	1, 2.5, 5 or 10 µM for 48 hours
	Applications:	RG2833 dose-dependently upregulates frataxin mRNA and protein levels in cultures of unstimulated peripheral blood mononuclear cells (PBMC) from FRDA patients.
In Vivo	Animal experiment	
	Animal models:	GAA knock-in mice
	Dosage form:	150 mg/kg, subcutaneous injection
	Applications:	RG2833 corrected frataxin deficiency and increases histone acetylation in the brain and heart of KIKI mice (a GAA repeat based FRDA mouse model) without acute toxicity signs.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

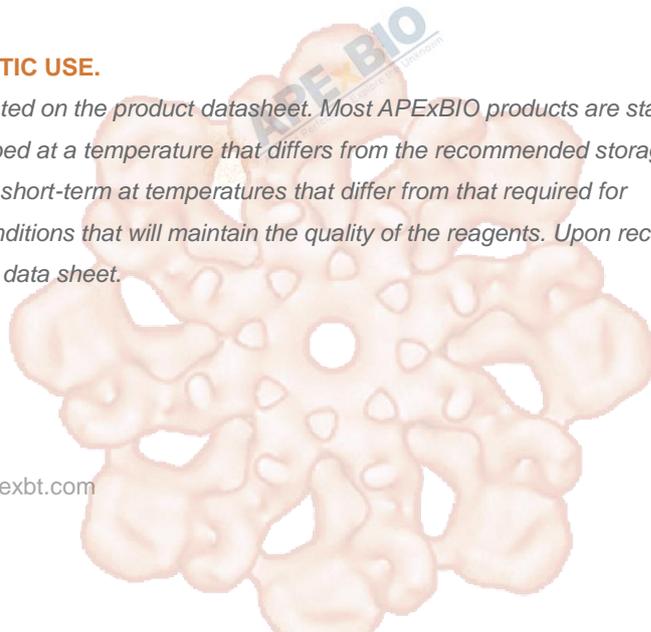
[1]. Rai M, et al. Two new pimelic diphenylamide HDAC inhibitors induce sustained frataxin upregulation in cells from Friedreich's ataxia patients and in a mouse model. PLoS One. 2010, 5(1), e8825.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



APEX BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

