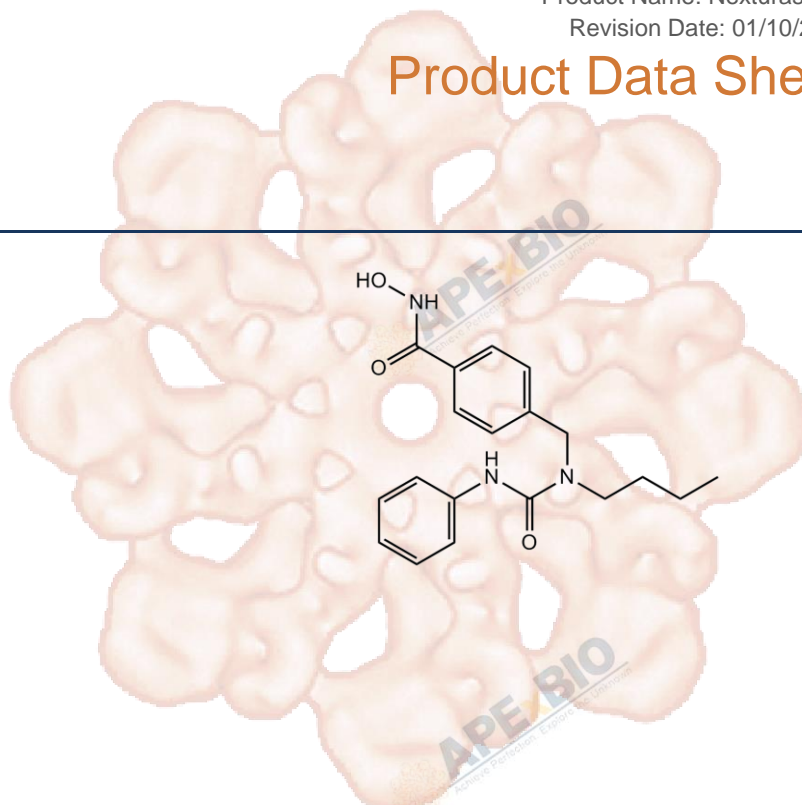


# Product Data Sheet

## Nexturastat A

<b>Cat. No.:</b>	B3704
<b>CAS No.:</b>	1403783-31-2
<b>Formula:</b>	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub>
<b>M.Wt:</b>	341.4
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	HDAC
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥16.3 mg/mL in DMSO; ≥9.3 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.9291 mL	14.6456 mL	29.2912 mL
	5 mM		0.5858 mL	2.9291 mL	5.8582 mL
	10 mM		0.2929 mL	1.4646 mL	2.9291 mL

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

### Biological Activity

Shortsummary

HDAC6 inhibitor, highly potent and selective

IC<sub>50</sub> & Target

5 nM (HDAC6)

In Vitro

#### Cell Viability Assay

Cell Line:	B16 murine melanoma cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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:	100 μM; 48 hrs

	Applications:	In B16 murine melanoma cells, Nexturastat A dose-dependently elevated acetyl $\alpha$ -tubulin levels without increasing histone H3 acetylation. Moreover, Nexturastat A potently inhibited the growth of B16 melanoma cells, with the GI50 value of 14.3 $\mu$ M.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Bergman JA, Woan K, Perez-Villarroel P, Villagra A, Sotomayor EM, Kozikowski AP. Selective histone deacetylase 6 inhibitors bearing substituted urea linkers inhibit melanoma cell growth. J Med Chem. 2012 Nov 26;55(22):9891-9.

## 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. Short-term 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**

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