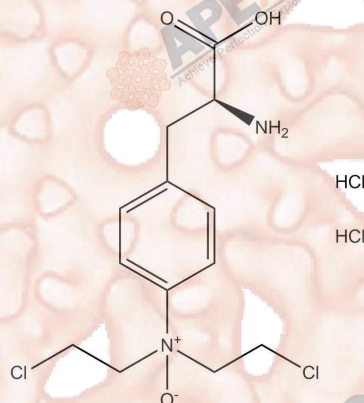


Product Data Sheet

PX-478 2HCl

Cat. No.:	B6004
CAS No.:	685898-44-6
Formula:	C ₁₃ H ₂₀ Cl ₄ N ₂ O ₃
M.Wt:	394.12
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	HIF
Storage:	Store at -20°C



Solvent & Solubility

≥19.7 mg/mL in DMSO; ≥50 mg/mL in H₂O; ≥8.42 mg/mL in EtOH

In Vitro

	Solvent Concentration	Mass	1mg	5mg	10mg
Preparing					
Stock Solutions					
	1 mM		2.5373 mL	12.6865 mL	25.3730 mL
	5 mM		0.5075 mL	2.5373 mL	5.0746 mL
	10 mM		0.2537 mL	1.2686 mL	2.5373 mL

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

Biological Activity

Shortsummary

HIF-1α inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	DU145 cells
Preparation method:	The solubility of this compound in DMSO is > 19.7 mg/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:	25 μM; 18 hrs
Applications:	Under hypoxic condition, incubation with PX-478 for 18 hrs increased the

		radiosensitivity of DU145 cells, but did not significantly affect HIF-1 α protein level.
In Vivo	Animal experiment	
	Animal models:	Nu/nu mice bearing C6 reporter xenografts
	Dosage form:	30 mg/kg; p.o.; for 2 days
	Applications:	In nu/nu mice bearing C6 reporter xenografts, PX-478 treatment (30 mg/kg; p.o.; for 2 days) inhibited the transcriptional activity of HIF-1 in central ischemic regions of C6 tumors.
	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]. Palayoor ST, Mitchell JB, Cerna D, et al. PX-478, an inhibitor of hypoxia-inducible factor-1 α , enhances radiosensitivity of prostate carcinoma cells. International journal of cancer, 2008, 123(10): 2430-2437.
- [2]. Schwartz DL, Powis G, Thitai-Kumar A, et al. The selective hypoxia inducible factor-1 inhibitor PX-478 provides in vivo radiosensitization through tumor stromal effects. Molecular cancer therapeutics, 2009, 8(4): 947-958.

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.



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