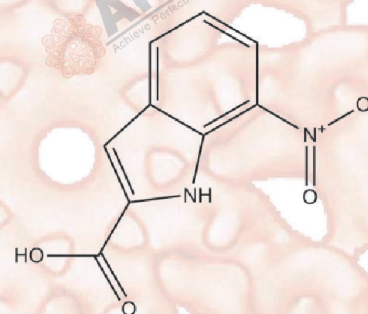


Product Data Sheet

CRT0044876

Cat. No.: B3061
CAS No.: 6960-45-8
Formula: C₉H₆N₂O₄
M.Wt: 206.15
Synonyms:
Target: DNA Damage/DNA Repair
Pathway: DNA Synthesis
Storage: Store at -20°C



Solvent & Solubility

≥55.56 mg/mL in DMSO; insoluble in H₂O; ≥2.85 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
Preparing Stock Solutions		1 mM	4.8508 mL	24.2542 mL	48.5084 mL
		5 mM	0.9702 mL	4.8508 mL	9.7017 mL
		10 mM	0.4851 mL	2.4254 mL	4.8508 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

APE1 inhibitor, potent and selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human HT1080 fibrosarcoma cells
Preparation method:	The solubility of this compound in DMSO is > 55.6 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:	1 ~ 2 hrs

In Vivo	Applications:	In Human HT1080 fibrosarcoma cells, CRT0044876 significantly increased apurinic/apyrimidinic (AP) site accumulation. HT1080 cells treated with methylmethane sulfonate (MMS) also elevated the level of AP sites. The combination of CRT0044876 and MMS caused a synergistic increase in the level of AP sites.
	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Madhusudan S, Smart F, Shrimpton P, et al. Isolation of a small molecule inhibitor of DNA base excision repair. Nucleic Acids Res, 2005, 33(15): 4711-4724.

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

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