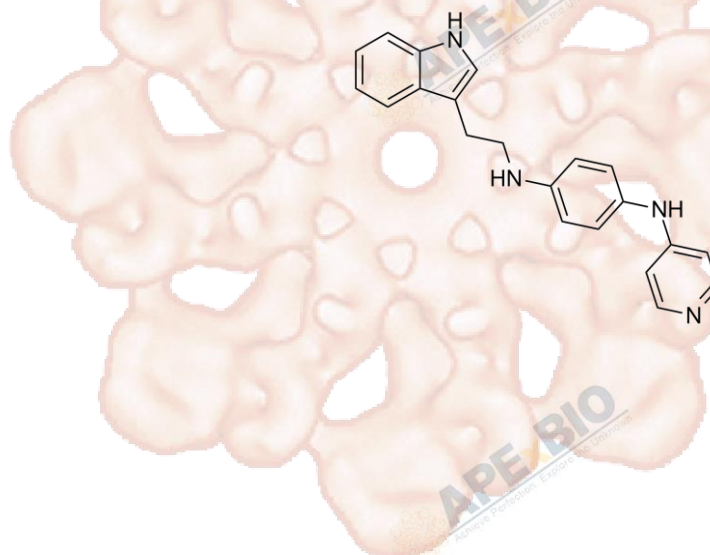


Product Data Sheet

JNJ-26854165 (Serdemetan)

Cat. No.:	A4204
CAS No.:	881202-45-5
Formula:	C ₂₁ H ₂₀ N ₄
M.Wt:	328.41
Synonyms:	JNJ 26854165
Target:	Apoptosis
Pathway:	p53
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥14.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.0450 mL	15.2249 mL	30.4497 mL
	5 mM	0.6090 mL	3.0450 mL	6.0899 mL
	10 mM	0.3045 mL	1.5225 mL	3.0450 mL

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

Biological Activity

Shortsummary

P53 activator, blocking Mdm2-p53 interaction

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	H460, A549 cells, and HMEC-1 endothelial 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:	0.5, 1, 2.5, 5, 10, 25 and 50 μM; 48 h

	Applications:	After 48 h treatment, Serdemetan inhibited cell proliferation with IC50 values of 3.9 μ M, and 8.7 μ M for H460 cells and A549 cells, respectively. Moreover, Serdemetan at 5 μ M inhibited HMEC-1 endothelial cell migration.
In Vivo	Animal experiment	
	Animal models:	H460 and A549 cells, injected in the right flank of nude mice were grown as tumor xenografts.
	Dosage form:	50 mg/kg; p.o. twice a week, for 2 weeks
	Applications:	Serdemetan treatment significantly enhanced radiation-induced growth delays in A549 and H460 xenograft 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

1. Chen R, Zhou J, et al. "A Fusion Protein of the p53 Transaction Domain and the p53-Binding Domain of the Oncoprotein MdmX as an Efficient System for High-Throughput Screening of MdmX Inhibitors." *Biochemistry*. 2017 Jun 27;56(25):3273-3282.PMID:28581721

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References

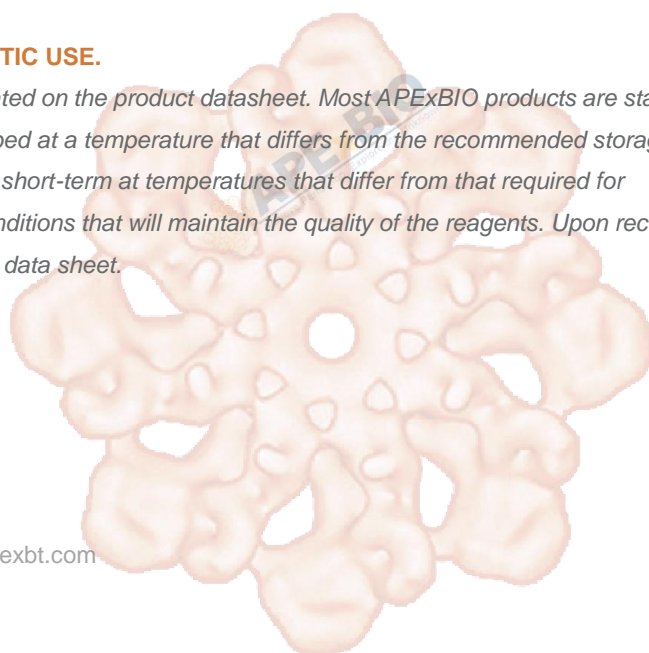
1. Chargari, C., Leteur, C., Angevin, E., Bashir, T., Schoentjes, B., Arts, J., Janicot, M., Bourhis, J. and Deutsch, E. (2011) Preclinical assessment of JNJ-26854165 (Serdemetan), a novel tryptamine compound with radiosensitizing activity in vitro and in tumor xenografts. *Cancer Lett.* 312, 209-218

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 APExBIO 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.



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