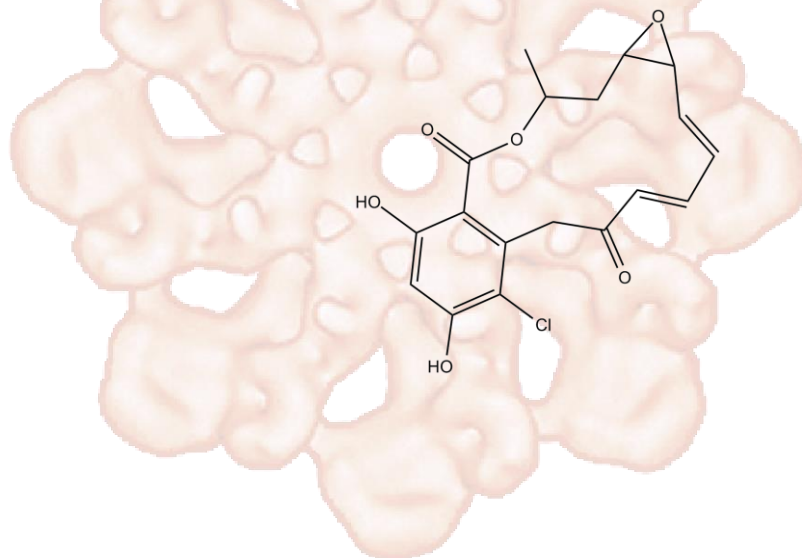


Product Data Sheet

Radicolol

Cat. No.:	A4067
CAS No.:	12772-57-5
Formula:	C ₁₈ H ₁₇ ClO ₆
M.Wt:	364.78
Synonyms:	
Target:	Metabolism
Pathway:	HSP
Storage:	Store at -20°C



Solvent & Solubility

Soluble in ethanol

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		2.7414 mL	13.7069 mL	27.4138 mL
	5 mM		0.5483 mL	2.7414 mL	5.4828 mL
	10 mM		0.2741 mL	1.3707 mL	2.7414 mL

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

Biological Activity

Shortsummary

ATPase/kinase inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	3T3-L1 preadipocytes
Preparation method:	The solubility of this compound in ethanol is 25 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:	2.5, 5, and 10 μM
Applications:	In 3T3-L1 preadipocytes, radicolol dose-dependently reduced intracellular

	lipids, resulting in significantly lower lipid contents. Radicol significantly decreased the protein expression of PPAR γ and C/EBP α protein, which then affected adipocyte differentiation.	
In Vivo	Animal experiment	
	Animal models:	Male C57BL/6 mice
	Dosage form:	60 mg/kg; diluted in vehicle (PBS)
	Applications:	In male C57BL/6 mice, radicol (60 mg/kg) reduced cecal ligation and puncture (CLP)-induced leukocyte rolling by 15% and adhesion by 22%. In these septic mice, radicol decreased CLP-induced MPO levels in the colon by 24%. Pretreatment with radicol decreased CLP-evoked formation of MIP-2 and KC down to 68.4 ± 10.5 ng/g and 96.7 ± 15.2 ng/g, respectively, in the colon.
	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

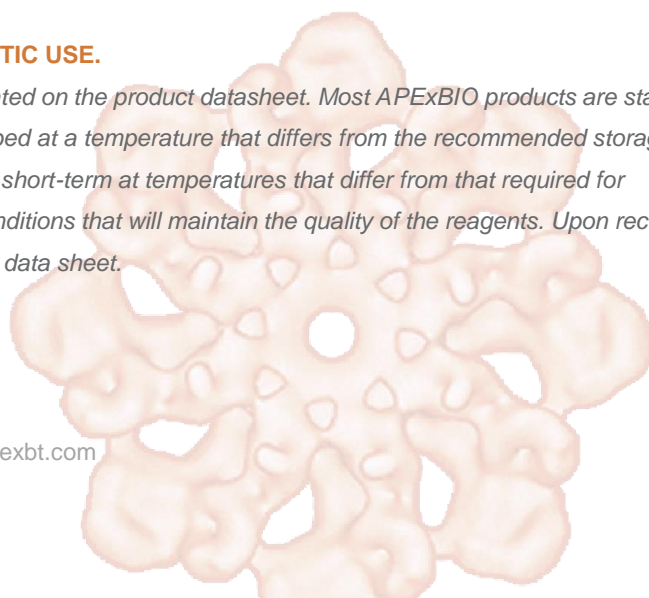
- [1] He Y, Li Y, Zhang S, Perry B, Zhao T, Wang Y, Sun C. Radicol, a heat shock protein 90 inhibitor, inhibits differentiation and adipogenesis in 3T3-L1 preadipocytes. *Biochem Biophys Res Commun*. 2013 Jun 28;436(2):169-74.
- [2]. Zhao Y, Huang ZJ, Rahman M, et al. Radicol, an Hsp90 inhibitor, inhibits intestinal inflammation and leakage in abdominal sepsis. *J Surg Res*. 2013 Jun 15;182(2):312-8.

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.



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