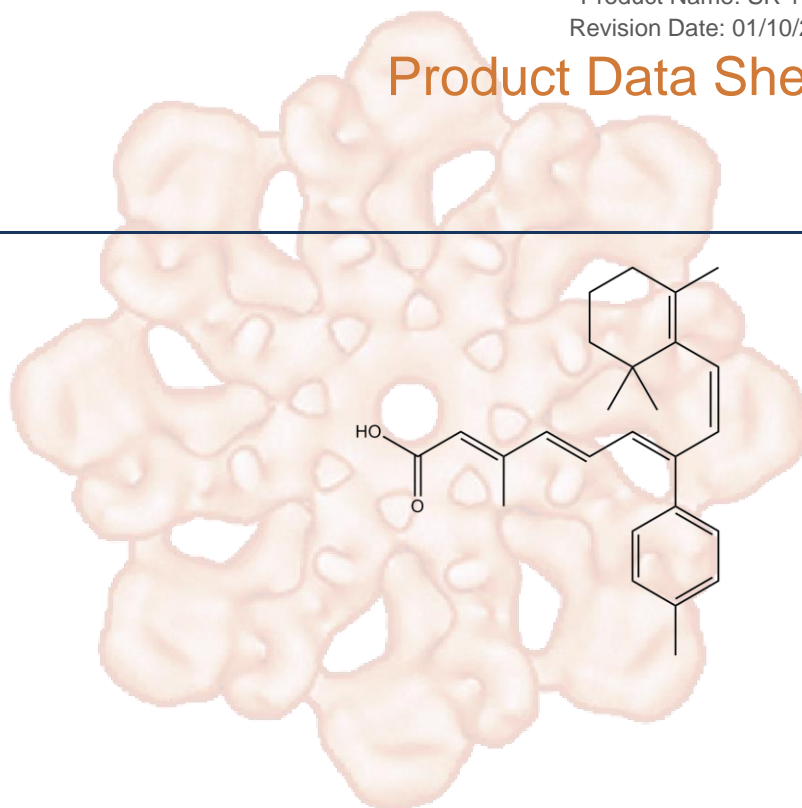


Product Data Sheet

SR 11302

Cat. No.:	A8185
CAS No.:	160162-42-5
Formula:	C ₂₆ H ₃₂ O ₂
M.Wt:	376.54
Synonyms:	
Target:	Immunology/Inflammation
Pathway:	AP-1
Storage:	Store at -20°C



Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		2.6558 mL	13.2788 mL	26.5576 mL
	5 mM		0.5312 mL	2.6558 mL	5.3115 mL
	10 mM		0.2656 mL	1.3279 mL	2.6558 mL

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

Biological Activity

Shortsummary

AP-1 transcription factor inhibitor

 IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	T-47D, Calu-6 and HeLa cell lines
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:	10 ⁻⁶ M
Applications:	SR 11302 inhibits effectively the proliferation of T-47D, Calu-6 and HeLa cell

lines, and could serve as a candidate for new retinoid therapeutic agent with reduced side effects.

Animal experiment

Animal models: AP-1-luciferase transgenic mice

Dosage form: four times over 7 days with 34 nmol dissolved in 300 μ l acetone

Applications: SR 11302 is one of the most promising drug candidate for chemotherapy and chemoprevention of cancer, and its effect is mediated by blocking AP-1 activity.

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.

In Vivo

Product Citations

1. Wang T, Jin X, et al. "Association of NF- κ B and AP-1 with MMP-9 Overexpression in 2-Chloroethanol Exposed Rat Astrocytes." Cells. 2018 Aug 7;7(8). pii: E96.PMID:30087244
2. Michael John Vanden Oever. "Regulation of Type VII Collagen in Patients with Recessive Dystrophic Epidermolysis Bullosa." UNIVERSITY OF MINNESOTA.2017.

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References

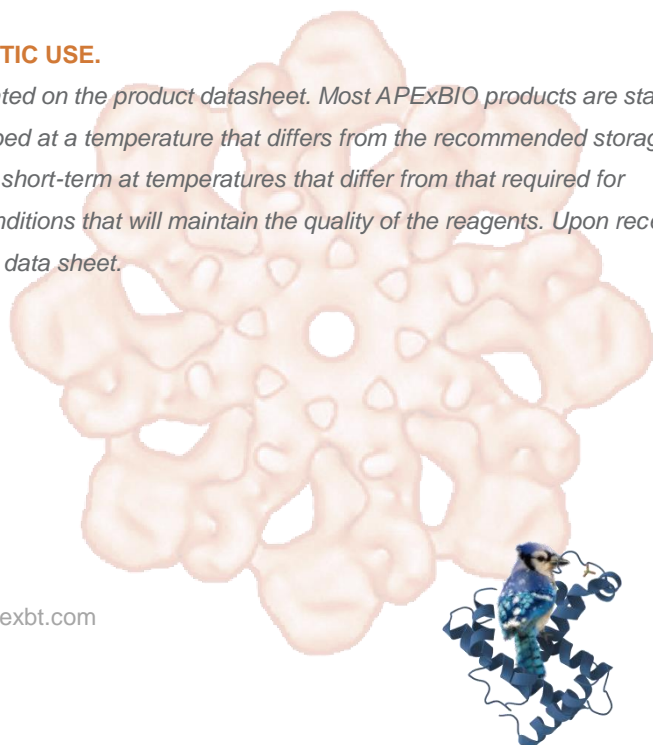
- [1] Fanjul A, Dawson MI, Hobbs PD, et al. A new class of retinoids with selective inhibition of AP-1 inhibits proliferation. Nature, 1994, 372(6501): 107-111.
- [2] Huang C, Ma WY, Dawson MI, et al. Blocking activator protein-1 activity, but not activating retinoic acid response element, is required for the antitumor promotion effect of retinoic acid. Proc Natl Acad Sci U S A, 1997, 94(11): 5826-5830.

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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