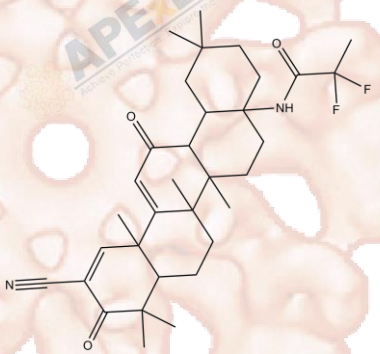
Product Data Sheet

Omaveloxolone (RTA-408)

Cat. No.: B3576
CAS No.: 1474034-05-3
Formula: C33H44F2N2O3
M.Wt: 554.71
Synonyms:
Target: Apoptosis
Pathway: KEAP1-Nrf2
Storage: Store at -20°C



Solvent & Solubility

In Vitro

⩾55.5 mg/mL in DMSO; insoluble in H2O; ⩾25.05 mg/mL in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.8027 mL	9.0137 mL	18.0274 mL
5 mM	0.3605 mL	1.8027 mL	3.6055 mL
10 mM	0.1803 mL	0.9014 mL	1.8027 mL

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

Biological Activity

Shortsummary	Nrf2 activator
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	PANC-1, A549 and A375 cell lines
Preparation method:	Soluble in DMSO. 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:	0~1000 nM for 72h

	Applications:	RTA 408 inhibits growth and induces apoptosis (increase caspase activity) in human tumor cell lines
In Vivo	**Animal experiment**	
	Animal models:	BALB/c mice
	Dosage form:	topical application 0.01%, 0.1% or 1.0% in sesame oil daily for 35 days
	Applications:	RTA 408 could protect skin from radiation-induced dermatitis, by activation of the antioxidative transcription factor Nrf2 and inhibition of the proinflammatory transcription factor nuclear factor-kappa b (NF-κB).
	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] Probst BL, Trevino I, McCauley L, Bumeister R, Dulubova I, Wigley WC, Ferguson DA. RTA 408, A Novel Synthetic Triterpenoid with Broad Anticancer and Anti-Inflammatory Activity. PLoS One. 2015 Apr 21;10(4):e0122942.

[2] Reisman SA, Lee CY, Meyer CJ, Proksch JW, Sonis ST, Ward KW. Topical application of the synthetic triterpenoid RTA 408 protects mice from radiation-induced dermatitis. Radiat Res. 2014 May;181(5):512-20.

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. 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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