

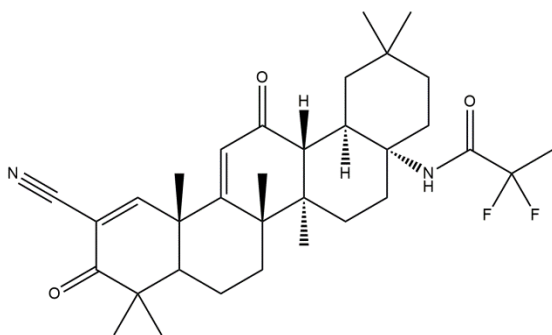
# RTA 408

08/19

**ALTERNATE NAMES:** N-[(4aS,6aR,6bS,8aR,12aS,14aR,14bS)-11-cyano-2,2,6a,6b,9,9,12a-heptamethyl-10,14-dioxo-1,3,4,5,6,7,8,8a,14a,14b-decahydropicen-4a-yl]-2,2-difluoropropanamide; Omaveloxolone; N-(2-cyano-3,12-dioxo-28-noroleana-1,9(11)-dien-17-yl)-2,2-difluoropropanamide; N-((4aS,6aR,6bS,8aR,12aS,14aR,14bS)-11-cyano-2,2,6a,6b,9,9,12a-heptamethyl-10,14-dioxo-1,2,3,4,4a,5,6,6a,6b,7,8,8a,9,10,12a,14,14a,14b-octadecahydropicen-4a-yl)-2,2-difluoropropanamide

**CATALOG #:** B2860-5 5 mg  
B2860-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>33</sub>H<sub>44</sub>F<sub>2</sub>N<sub>2</sub>O<sub>3</sub>

**MOLECULAR WEIGHT:** 554.71

**CAS NUMBER:** 1474034-05-3

**APPEARANCE:** A crystalline solid

**PURITY:** ≥98%

**SOLUBILITY:** ~2 mg/ml in ethanol, DMSO and DMF

**DESCRIPTION:** RTA 408 is a synthetic oleanane triterpenoid that activates Nrf2. RTA 408 activates Nrf2 and suppresses nitric oxide and pro-inflammatory cytokine levels in interferon-γ-stimulated RAW 264.7 macrophage cells at low concentrations (≤ 25 nM). It inhibits growth of tumor cells with a GI<sub>50</sub> value of 260 ± 74 nM. Topical application of RTA 408 induces cytoprotective genes and protects mice from radiation-induced dermatitis.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Reisman, S.A., Lee, C.Y.I., Meyer, C.J., et al. Topical application of the synthetic triterpenoid RTA 408 protects mice from radiation-induced dermatitis. *Radiation Research* 181, 512-520 (2014).
2. Probst, B.L., Trevino, I., McCauley, L., et al. RTA 408, a novel synthetic triterpenoid with broad anticancer and anti-inflammatory activity. *PLoS One* 10(4), 1-16 (2015).

**RELATED PRODUCTS:**

Sulforaphane (Cat. No. B2801)  
 Bardoxolone (Cat. No. B1170)  
 Iberin (Cat. No. B2827)  
 Dimethyl Fumarate (Cat. No. 9660)  
 Oleanolic Acid (Cat. No. 1731)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*