

Catalog # 10-2676

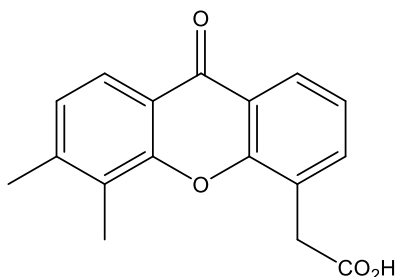
DMXAA

CAS# 117570-53-3

ASA404; Vadimezan

5,6-Dimethylxanthenone-4-acetic acid

Lot # X106911



STING (Stimulator of Interferon Genes) agonist selective for mouse STING.^{1,2} Intratumoral administration of DMXAA resulted in tumor regression and complete rejection in mouse xenografts.³ Tumor regression induced by DMXAA results from a cascade of cellular events which include disruption of tumor vasculature followed by the release of chemokines which trigger the recruitment of immune cells.⁴ DMXAA induced expression of IFN- β resulting in a striking expansion of leukemia-specific T cells extending survival in two acute myeloid leukemia models.⁵

- 1) Prantner *et al.* (2012), *5,6-Dimethylxanthenone-4-acetic acid (DMXAA) activates stimulator of interferon gene (STING)-dependent innate immune pathways and is regulated by mitochondrial membrane potential*; J. Biol. Chem., **287** 39776
- 2) Conlon *et al.* (2013), *Mouse, but not human STING, binds and signals in response to the vascular disrupting agent 5,6-dimethylxanthenone-4-acetic acid*; J. Immunol., **190** 5216
- 3) Corrales *et al.* (2015), *Direct Activation of STING in the Tumor Microenvironment Leads to Potent and Systemic Tumor Regression and immunity*; Cell Rep., **11** 1018
- 4) Weiss *et al.* (2017), *The STING agonist DMXAA triggers a cooperation between T lymphocytes and myeloid cells that leads to tumor regression*; Oncoimmunology, **6** e1346765
- 5) Curran *et al.* (2016), *STING Pathway Activation Stimulates Potent Immunity Against Acute Myeloid Leukemia*; Cell Rep., **15** 2357

PHYSICAL DATA

Molecular Weight:	282.29
Molecular Formula:	C ₁₇ H ₁₄ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml) or DMF (up to 14 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

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