

**Catalog # 10-2676**

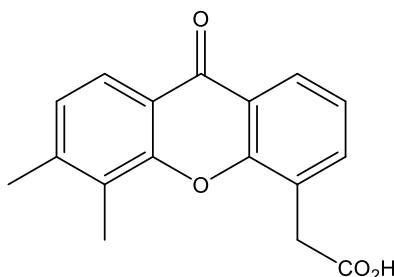
**DMXAA**

CAS# 117570-53-3

ASA404; Vadimezan

5,6-Dimethylxanthenone-4-acetic acid

Lot # X106911



STING (Stimulator of Interferon Genes) agonist selective for mouse STING.<sup>1,2</sup> Intratumoral administration of DMXAA resulted in tumor regression and complete rejection in mouse xenografts.<sup>3</sup> 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.<sup>4</sup> DMXAA induced expression of IFN- $\beta$  resulting in a striking expansion of leukemia-specific T cells extending survival in two acute myeloid leukemia models.<sup>5</sup>

- 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 <sub>17</sub> H <sub>14</sub> O <sub>4</sub>
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.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**