PRODUCT: DMXAA

ALTERNATE NAME: 2-(5,6-dimethyl-9-oxoxanthen-4-yl)acetic acid; Vadimezan; ASA404; NSC 640488

CATALOG #: 2804-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:

MOLECULAR FORMULA: C_{17}H_{14}O_{4}

MOLECULAR WEIGHT: 282.29

CAS NUMBER: 117570-53-3

APPEARANCE: White solid

SOLUBILITY: DMSO (>10 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 ℃. Protect from air and light

DESCRIPTION: DMXAA acts as a tumor vascular disrupting agent, inducing apoptosis in tumor vascular endothelium resulting in necrosis at the tumor core. It potently activates the TANK-binding kinase 1-interferon regulatory factor 3 signaling pathway in leukocytes, inducing type-I-interferon production. In addition, DMXAA significantly inhibits several kinases in endothelial cells, including the vascular endothelial growth factor (VEGF) receptors VEGFR1 and VEGFR2 (IC_{50} = 119 and 11 µM, respectively). Recent studies have shown that DMXAA is a competitive agonist ligand for mouse.


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

RELATED PRODUCTS:
cGAMP disodium salt (Cat. No. 2435-100)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans