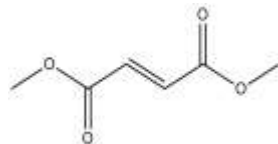


**PRODUCT: Dimethyl fumarate****ALTERNATE NAME:** 2(*E*)-Butenedioic acid 1,4-dimethyl ester; DMF**CATALOG #:** 9660-100, 500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>6</sub>H<sub>6</sub>O<sub>4</sub>**MOLECULAR WEIGHT:** 144.13**CAS#:** 624-49-7**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>15 mg/ml) or EtOH (>5 mg/ml)**PURITY:** ≥98% by GC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** Dimethyl fumarate is an anti-inflammatory agent. It effectively blocks NF-κB activity in multiple breast cancer cell lines and abrogates NF-κB-dependent mammosphere formation, indicating that DMF has anti-cancer stem cell properties. In addition, DMF inhibits cell proliferation and significantly impairs xenograft tumor growth. DMF also prevents p65 nuclear translocation and attenuates its DNA binding activity but has no effect on upstream proteins in the NF-κB pathway.**REFERENCE:** Kastrati, I., *et al.* (2016). *J. Biol. Chem.* **291**, 3639-3647.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

Andrographolide (Cat. No. 2389-50, 250)

BAY 11-7082 (Cat. No. 1867-10, 50)

Celastrol (Cat. No. 1940-5, 25)

Honokiol (Cat. No. 1762-10, 50)

ML130 (Cat. No. 1974-5, 25)

NSC 146109 hydrochloride (Cat. No. 1907-5)

Nutlin-3 (Cat. No. 1842-1, 5)

Parthenolide (Cat. No. 1868-10,50)

PDTc (Cat. No. 1676-100)

Rocaglamide (Cat. No. 1863-100)

SC-514 (Cat. No. 2442-5, 25)

Sauchinone (Cat. No. 2312-1, 5)

TPCA-1 (Cat. No. 2431-5, 25)

Triptolide (Cat. No. 1761-1,5)

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