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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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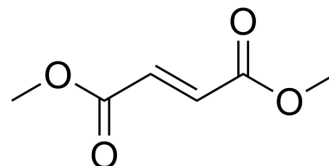
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Dimethyl fumarate (Standard)

Cat. No.:	HY-17363R
CAS No.:	624-49-7
Molecular Formula:	C ₆ H ₈ O ₄
Molecular Weight:	144.13
Target:	Reactive Oxygen Species; HIV; Autophagy; Keap1-Nrf2; Endogenous Metabolite
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Anti-infection; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Dimethyl fumarate (Standard) is the analytical standard of Dimethyl fumarate. This product is intended for research and analytical applications. Dimethyl fumarate (DMF) is an orally active and brain-penetrant Nrf2 activator and induces upregulation of antioxidant gene expression. Dimethyl fumarate induces necroptosis in colon cancer cells through GSH depletion/ROS increase/MAPKs activation pathway, and also induces cell autophagy. Dimethyl fumarate can be used for multiple sclerosis research^{[1][2]}.

REFERENCES

- [1]. Peng H, et al. Dimethyl fumarate inhibits dendritic cell maturation via nuclear factor κB (NF-κB) and extracellular signal-regulated kinase 1 and 2 (ERK1/2) and mitogen stress-activated kinase 1 (MSK1) signaling. *J Biol Chem.* 2012 Aug 10;287(33):28017-26.
- [2]. Cross SA, et al. Dimethyl fumarate, an immune modulator and inducer of the antioxidant response, suppresses HIV replication and macrophage-mediated neurotoxicity: a novel candidate for HIV neuroprotection. *J Immunol.* 2011 Nov 15;187(10):5015-25.
- [3]. Jing X, et al. Dimethyl fumarate attenuates 6-OHDA-induced neurotoxicity in SH-SY5Y cells and in animal model of Parkinson's disease by enhancing Nrf2 activity. *Neuroscience.* 2015 Feb 12;286:131-40
- [4]. Xin Xie, et al. Dimethyl fumarate induces necroptosis in colon cancer cells through GSH depletion/ROS increase/MAPKs activation pathway. *Br J Pharmacol.* 2015 Aug;172(15):3929-43.

Caution: Product has not been fully validated for medical applications. For research use only.

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