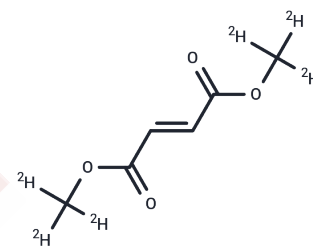


Dimethyl fumarate-D6

Chemical Properties

CAS No. : 66487-95-4
 Formula: C₆H₈O₄
 Molecular Weight: 150.16
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dimethyl fumarate-D6 is a deuterium labeled Dimethyl fumarate (T0492). can induces upregulation of antioxidant gene expression.
Targets(IC50)	Nrf2

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6596 mL	33.2978 mL	66.5956 mL
5 mM	1.3319 mL	6.6596 mL	13.3191 mL
10 mM	0.666 mL	3.3298 mL	6.6596 mL
50 mM	0.1332 mL	0.666 mL	1.3319 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Albrecht P, et al. Effects of dimethyl fumarate on neuroprotection and immunomodulation. *J Neuroinflammation*. 2012 Jul 7;9:163.
- Peng H, et al. Dimethyl fumarate inhibits dendritic cell maturation via nuclear factor κ B (NF- κ B) 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.
- Meili-Butz S, et al. Dimethyl fumarate, a small molecule drug for psoriasis, inhibits Nuclear Factor-kappaB and reduces myocardial infarct size in rats. *Eur J Pharmacol*. 2008 May 31;586(1-3):251-8.
- 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.
- 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.
- Li Y, et al. Dimethyl fumarate accelerates wound healing under diabetic condition. *J Mol Endocrinol*. 2018 Jul 23. pii: JME-18-0102.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481