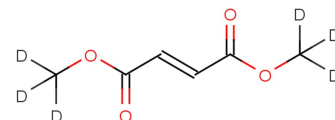


Dimethyl fumarate D6

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 66487-95-4 |
| Formula: | C ₆ H ₂ D ₆ O ₄ |
| Molecular Weight: | 150.16 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Dimethyl fumarate D6 is a deuterium labeled Dimethyl fumarate. can induces upregulation of antioxidant gene expression. |
| Targets(IC ₅₀) | Others: None |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 6.66 mL | 33.298 mL | 66.596 mL |
| 5 mM | 1.332 mL | 6.66 mL | 13.319 mL |
| 10 mM | 0.666 mL | 3.33 mL | 6.66 mL |
| 50 mM | 0.133 mL | 0.666 mL | 1.332 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Albrecht P, et al. Effects of dimethyl fumarate on neuroprotection and immunomodulation. *J Neuroinflammation*. 2012 Jul 7;9:163.
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3. 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.
4. 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.
5. 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.
6. Li Y, et al. Dimethyl fumarate accelerates wound healing under diabetic condition. *J Mol Endocrinol*. 2018 Jul 23. pii: JME-18-0102.

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