

4-Octyl Itaconate

Cat. # F5270-10, F5270-50

Also Known as: N/A

Formula: $C_{13}H_{22}O_4$ MW: 242.3 g/mol CAS No.: 3133-16-2 Source: Synthetic Form: Powder

Soluble in DMSO up to 40 mg/mL. Insoluble in water.

Prepartion of Stocks in 10 mg/mL = 41.3 mM

DMSO:

Quality Assurance: >98% purity assayed by HPLC and NMR.

Description: 4-Octyl Itaconate is a cell-permeable derivative of itaconate, an endogenous

metabolite produced during the TCA cycle. 4-octyl Itaconate targets KEAP1 to prevent Nrf2 degradation, thereby exhibiting antioxidative and anti-inflammatory

activities.

Storage: Eligible for room temperature shipping. Store at -20°C upon receiving.

Avoid multiple freeze-thaw cycles after dissolving in DMSO.

Literature: 1. Mills E.L., et al. Nature. 2018, 556, 113.