

4-Octyl itaconate, Nrf2 activator

Catalog	Unit
TBI3573-20MG	20 mg
TBI3573-100MG	100 mg

Product Details

Formal Name: 4-Octyl methylenesuccinate; n-Octyl 3-carboxy-3-butenate

Molecular Formula: C₁₃H₂₂O₄

Formula Weight: 242.3

CAS Number: 3133-16-2

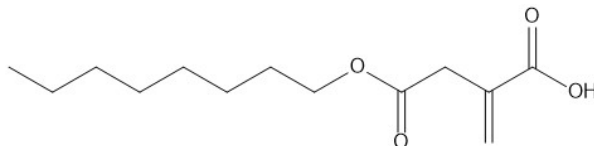
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Nrf2 activator

Functions

Cell-permeable analog of itaconic acid which activates the anti-inflammatory transcription factor Nrf2 via alkylation of KEAP1. It inhibits various forms of cell death including ferroptosis and gasdermin B-mediated pyroptosis while inducing secretion of anti-inflammatory proteins and promoting a wound-resolving phenotype in pro-inflammatory macrophages.

Application Procedures

First dissolved in Soluble in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.