

Catalog	Unit
TBI2757-100MG	100 mg
TBI2757-500MG	500 mg

Product Details

Formal Name: 3-Methyl-cyclopentadecanone (racemic)

Molecular Formula: C₁₆H₃₀O

Formula Weight: 238.40

CAS Number: 541-91-3

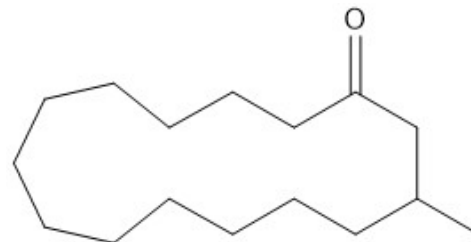
Purity: >98%

Formulation: oil

Solubility: Soluble in DMSO (up to 35 mg/ml), or in Ethanol (up to 35 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Cardioprotective and neuroprotective agent

Functions

Muscone is a macrocyclic ketone found naturally in a glandular secretion of the musk deer which acts at human odorant receptor OR5AN1 and is used in perfumes. It suppresses inflammatory responses and neuronal damage in various models including a rat model of cervical spondylotic myelopathy and relieves inflammatory pain acting via the NOX4/JAK2-STAT3 and NLRP3 inflammasome pathway. In the cardiovascular system it alleviates myocardial ischemia-reperfusion injury and improves cardiac function in mice after myocardial infarction via enhancement of angiogenesis.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml), or in Ethanol (up to 35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.