

Product Data Sheet

Product Name: Shepherdine

Cat. No.: GC81760

Chemical Properties

Cas. No. 3000-36-0

Formula $C_{12}H_{14}N_2O$

M.Wt 202.25

Solubility DMSO: 107 mg/mL (529.05 mM;
Need ultrasonic)

Storage Store at 4°C, sealed storage, away
from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the
ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or
blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Shepherdine, a harmala-type indole and tetrahydro- β -carboline alkaloid, is an antioxidant. Shepherdine scavenges free radicals via single electron transfer from its indole ring, forming an indolyl cation or neutral radical, and may convert to aromatic β -carbolines during this process. Shepherdine can be used for research on antioxidant activity [1].

In Vitro, Shepherdine (Compound 1) acts as a potent ABTS $\bullet$ + radical scavenger in a cell-free assay[1].

References:

[1]. Herraiz T, et al. Tetrahydro-beta-carboline alkaloids occur in fruits and fruit juices. Activity as antioxidants and radical scavengers. J Agric Food Chem. 2003;51(24):7156-7161.

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