1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{12}H_{13}NO_4 \)

Batch Molecular Weight: 235.24

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>61.27</td>
<td>5.57</td>
<td>5.95</td>
</tr>
<tr>
<td>Found</td>
<td>61.37</td>
<td>5.57</td>
<td>6.03</td>
</tr>
</tbody>
</table>
Product Name: ISO 1

CAS Number: 478336-92-4
IUPAC Name: 4,5-Dihydro-3-(4-hydroxyphenyl)-5-isoxazoleacetic acid methyl ester

Description:
Macrophage migration inhibitory factor (MIF) inhibitor (IC$_{50}$ = 7 μM); inhibits MIF tautomerase activity in vitro and in vivo. Protective against mouse models of streptozotocin-induced diabetes mellitus; blocks anti-inflammatory response following LPS exposure and increases survival. Inhibits airway remodeling in a mouse model of chronic asthma. Cell permeable; orally bioavailable.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{12}$H$_{13}$NO$_4$
Batch Molecular Weight: 235.24
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquotted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: