1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{10}\text{H}_{10}\text{N}_{2}\text{O} \)
Batch Molecular Weight: 174.2
Physical Appearance: Light yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.41 \) (Dichloromethane:Methanol:Ammonia soln. [10:1:0.1])
Melting Point: Between 129 - 130°C
HPLC: Shows 99.9% 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>68.95</td>
<td>5.79</td>
<td>16.08</td>
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<tr>
<td>Found</td>
<td>68.83</td>
<td>6.01</td>
<td>16.11</td>
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</tbody>
</table>
Product Name: Edaravone
CAS Number: 89-25-8
IUPAC Name: 3-Methyl-1-phenyl-2-pyrazolin-5-one

Description:
A radical scavenger and antioxidant which is able to protect against the effects of ischemia, probably by inhibiting the lipoxygenase system. Protects against MPTP-induced neurotoxicity. Inhibits autophagy.

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{10}N_{2}O
Batch Molecular Weight: 174.2
Physical Appearance: Light yellow solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO 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 aliquoted 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: