1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_5\text{H}_4\text{ClNO}_5\text{Ru}\cdot\frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 317.13

Physical Appearance: Yellow solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

![Batch Molecular Structure Diagram]

2. ANALYTICAL DATA

$^1\text{H NMR}$: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>18.94</td>
<td>18.65</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>2.07</td>
<td>1.73</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>4.42</td>
<td>4.49</td>
</tr>
</tbody>
</table>
Product Name: CORM 3
CAS Number: 475473-26-8
IUPAC Name: Tricarbonylchloro(glycinato)ruthenium

Description:
Water-soluble carbon monoxide-releasing molecule. Suppresses thrombin-induced nitrite release in BV-2 microglia. Protects isolated rats hearts from reperfusion damage in vitro and is cardioprotective in a rat myocardial infarction model in vivo. Also prolongs survival of transplanted hearts in mice. Exhibits anti-inflammatory and vasorelaxant effects.

Physical and Chemical Properties:
Batch Molecular Formula: C_{63}H_{24}ClNO_{6}Ru.1\frac{1}{4}H_{2}O
Batch Molecular Weight: 317.13
Physical Appearance: Yellow solid

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
water 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:

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use