

**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** CORM 2**Catalog No.:** 6117**Batch No.:** 1

CAS Number: 22594-69-0

IUPAC Name: Tricarbonyldichlororuthenium(II) dimer

**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:**  $C_6Cl_4O_6Ru_2 \cdot \frac{1}{4}H_2O$ **Batch Molecular Weight:** 516.51**Physical Appearance:** Off White solid**Solubility:** DMSO to 100 mM**Storage:** Store at RT**Batch Molecular Structure:**  
 $Ru_2Cl_4(CO)_6$ **2. ANALYTICAL DATA**

Microanalysis:	Carbon	Hydrogen	Nitrogen	Ruthenium
Theoretical	13.95			39.8
Found	14.35			38.75

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

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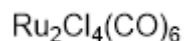
**Description:**

Carbon monoxide-releasing molecule. Causes vasodilatation in isolated aortic rings in vitro. Cytotoxic to smooth muscle cells in vitro after prolonged (24h) exposure. Exhibits antihypertensive effects in vivo. Reduces tight-junction disruption in intestinal mucosa in a rat sepsis model.

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Physical Appearance: Off White solid

**Batch Molecular Structure:****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:**

**Zhang et al** (2015) Carbon monoxide-releasing molecule-2 reduces intestinal epithelial tight-junction damage and mortality in septic rats. *PLoS One* **10** e0145988. PMID: 26720630.

**Motterlini et al** (2002) Carbon monoxide-releasing molecules: characterization of biochemical and vascular activities. *Circ.Res.* **90** E17. PMID: 11834719.

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