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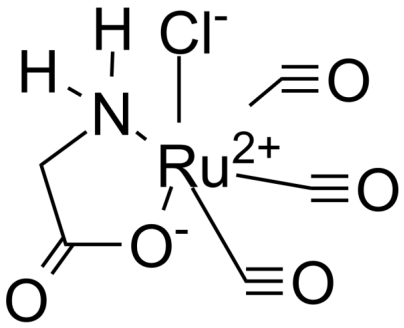
Certificate of Analysis

Catalog Number	BP15040
Product Name	CORM-3

Physical and Chemical Properties

Synonyms	CORM3, CORM 3
CAS No.	475473-26-8
Chemical Formula	C5H4ClNO5Ru
Molecular Weight	294.61
Solubility	DMSO: 129 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	CORM-3 is a carbon monoxide-releasing molecule with anti-inflammatory and cardioprotective activity.

In vitro	CORM-3 protects against hypoxia-reoxygenation and oxidative stress by promoting CO release in cardiac cells. CORM-3 attenuates the inflammatory response induced by LPS in RAW264.7 murine macrophages. CORM-3 also uncouples mitochondrial respiration via interaction with the phosphate carrier.
In vivo	CORM-3 (40 mg/kg i.p.) prolongs the survival of murine cardiac grafts and attenuates organ rejection in CBA mice transplanted with BALB/c hearts. CORM-3 (20 mg/kg i.p.) decreases cellular infiltration, joint inflammation and destruction in a collagen-induced arthritis mouse model.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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