Chemical Properties

Product Name: CORM-3

Cas No.: 475473-26-8

M.Wt: 294.61

Formula: C5H4ClNO5Ru

Chemical Name:


Solubility: Soluble in DMSO > 10 mM

Storage: Store at -20°C

General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shopping Condition: Evaluation sample solution: ship with blue ice

Biological Activity

Targets: Others

Pathways: Others

Description:

CORM-3 is a water-soluble carbon monoxide-releasing molecule 1. As a CO-releasing molecule, CORM-3 can mimic the anti-allergic and anti-anaphylactic effects of heme oxygenase through the activation of the soluble guanylyl cyclase. CORM-3 is reported to have effects on cardiovascular inflammation. It reduces PMN-induced CD54 expression on EC in an in vitro model. CORM-3 also has vasoactive properties in vitro and in vivo. It shows significant
vasodilatation through acting as a regulator of vessel tone and blood pressure. Besides that, CORM-3 is also a potent antimicrobial agent. It inhibits the respiration of bacterial and yeast pathogens via increasing membrane permeability and inhibiting the terminal oxidases 1,2,3,4.

Reference:

Product Citations

Product Validation
Table 1. The indexes of CORM3 protection to neonate rat acute lung injury induced by LPS.

Detection of A549 cell vitality by MTT.
Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.