
Product Data Sheet

Product Name: ROS-ERS inducer 1

Cat. No.: GC69831

Chemical Properties

Cas. No.

Formula $C_{24}H_{23}F_2I_2N_3Pt$ M.Wt 840.35

Solubility DMSO : 60 mg/mL (71.40 mM; Need ultrasonic) 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.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

ROS-ERS inducer 1 is a type II ICD (immunogenic cell death) inducer. ROS-ERS inducer 1 is a Pt(II)-N-heterocyclic carbene (Pt(II)-NHC) complex derived from 4,5-diarylimidazole. ROS-ERS inducer 1 successfully induces endoplasmic reticulum stress (ERS) accompanied by reactive oxygen species (ROS) generation and finally lead to the release of damage-associated molecular patterns (DAMPs) in HCC cells. ROS-ERS inducer 1 displays much higher anticancer activities than Cisplatin^[1].

[1]. Bian M, et al. Pt(II)-NHC Complex Induces ROS-ERS-Related DAMP Balance to Harness Immunogenic Cell Death in Hepatocellular Carcinoma. *J Med Chem.* 2022;65(3):1848-1866.

Caution: Product has not been fully validated for medical applications. For research use only.

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