

Product Data Sheet

Product Name: ROS-generating agent 1

Cat. No.: GC73225

Chemical Properties

Cas. No. 2369030-41-9

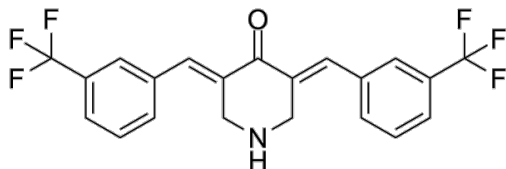
Formula $C_{21}H_{15}F_6NO$ M.Wt 411.34

Solubility DMSO : 33.33 mg/mL (81.03 mM; Storage -20°C
Need ultrasonic)

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-generating agent 1 (Compound 2c) covalently modifies the Sec-498 residue of TrxR to generate ROS. ROS-generating agent 1 reduces intracellular TrxR protein level. ROS-generating agent 1

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

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results in ROS-dependent apoptosis and ferroptosis of NCI-H460 cells. ROS-generating agent 1 has anti-cancer activities.

References:

[1]. Liu X, et al. Tumor killing by a dietary curcumin mono-carbonyl analog that works as a selective ROS generator via TrxR inhibition. Eur J Med Chem. 2023 Mar 15;250:115191.

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