

Product Data Sheet

Product Name: Nrf2-IN-4 hydrobromide

Cat. No.: GC81611

Chemical Properties

Cas. No.

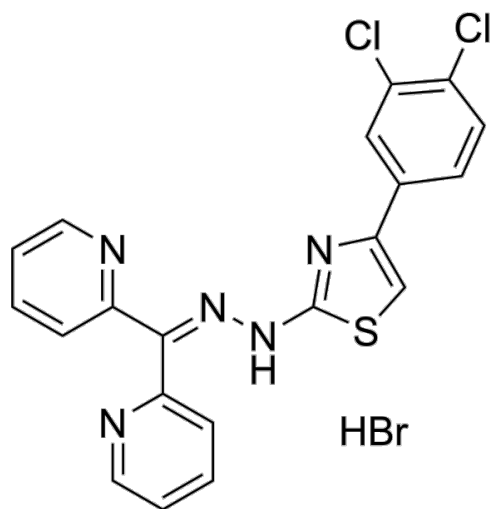
Formula $C_{20}H_{14}BrCl_2N_5S$ M.Wt 507.23

Solubility DMSO: 4.17 mg/mL (8.22 mM); ultrasonic and warming and heat to 60°C) 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

Nrf2-IN-4 (Compound PhcY) hydrobromide is a Nrf2 inhibitor. Nrf2-IN-4 hydrobromide induces ferroptosis via NRF2 inhibition. Nrf2-IN-4 hydrobromide disrupts cellular iron homeostasis, facilitates ferritin degradation, and ultimately triggers ferroptosis. Nrf2-IN-4 hydrobromide induces lysosome activation by promoting iron-dependent ROS production and lysosomal acidification. Nrf2-IN-4 hydrobromide demonstrates significant antitumor efficacy. Nrf2-IN-4 hydrobromide can be used for the study of breast cancer [1].

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

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References:

[1]. Meng X, et al. Discovery of novel thiazolyldhydrazone derivatives as potent anti-cancer agents inducing ferroptosis via direct NRF2 inhibition. Eur J Med Chem. 2025 Jun 28;297:117912.

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