

Product Data Sheet

Product Name: Nur77 modulator 1

Cat. No.: GC62416

Chemical Properties

Cas. No. 2469975-55-9

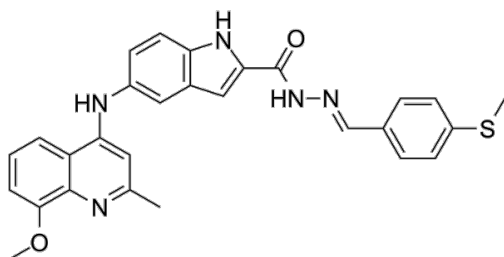
Formula $C_{28}H_{25}N_5O_2S$ M.Wt 495.6

Solubility DMSO : 125 mg/mL (252.22 mM; Storage 4°C, protect from light
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

Nur77 modulator 1 is a good Nur77 binder ($K_D = 3.58 \mu M$). Nur77 modulator 1 up-regulates Nur77 expression, mediates sub-cellular localization of Nur77, induces Nur77-dependent ER stress and

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autophagy, and results in cell apoptosis. Anti-hepatoma activity[1].

Nur77 modulator 1 (10g, 0-20 μ M) displays potent and broad-spectrum antiproliferative activity against all tested three hepatoma cell lines (HepG2, QGY-7703, and SMMC-7721), and less cytotoxicity against LO2 cells (human normal liver cell line)[1]. Nur77 modulator 1 (10g,) could specifically up-regulate the expression of Nur77 in a dose-dependent manner[1]. Nur77 modulator 1 (10g, 2.0 μ M) induces Nur77-dependent apoptosis[1]. Nur77 modulator 1 (10g, 2.0 μ M) increased LC3-II and Beclin1 protein levels in a dose-dependent manner (10g treatment does not enhance p62 degradation, indicating that autophagy induced by 10g is incomplete)[1].

Nur77 modulator 1 (10g, 10 and 20 mg/kg/day) exhibits significant anti-tumor activity in mouse hepatoma HepG2 xenograft with good tolerability[1].

[1]. Baicun Li, et al. Design, synthesis, and biological evaluation of 5-((8-methoxy-2-methylquinolin-4-yl)amino)-1H-indole-2-carbohydrazide derivatives as novel Nur77 modulators. Eur J Med Chem. 2020 Oct 15;204:112608.

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