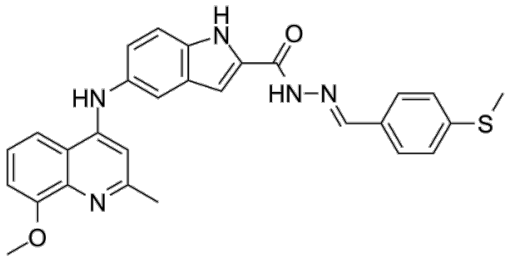
Product Data Sheet

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; Need ultrasonic)	Storage	4°C, protect from light
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 (KD = 3.58 μM). Nur77 modulator 1 up-regulates Nur77 expression, mediates sub-cellular localization of Nur77, induces Nur77-dependent ER stress and

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

Nur77 modulator 1 (10g, 0-20 μM) 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 μM) induces Nur77-dependent apoptosis[1].Nur77 modulator 1 (10g, 2.0 μM) 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.