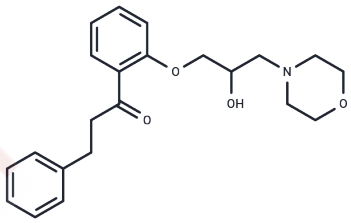
Data Sheet (Cat.No.T207336)

TargetMol

GPV0057

Chemical Properties



CAS No. : 86383-89-3

Formula: C22H27NO4

Molecular Weight: 369.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GPV0057 (Compound 5d) is a potent and selective inhibitor of P-glycoprotein (P-gp). It also acts as a selective activator of the potassium channel Kir2.1. By competitively binding at the substrate binding site of P-gp, GPV0057 inhibits ATP-dependent drug efflux, thereby reversing multidrug resistance in tumor cells. Additionally, it stabilizes the open state of Kir2.1, enhancing potassium ion influx. GPV0057 has potential applications in the study of tumors with high P-gp expression and Kir2.1-related diseases, such as heart failure and Andersen-Tawil syndrome.
Targets(IC50)	P-gp,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7067 mL	13.5336 mL	27.0673 mL
5 mM	0.5413 mL	2.7067 mL	5.4135 mL
10 mM	0.2707 mL	1.3534 mL	2.7067 mL
50 mM	0.0541 mL	0.2707 mL	0.5413 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481