

## P-gp inhibitor 21

## Chemical Properties

CAS No. :

Formula: C<sub>27</sub>H<sub>42</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight:

Keep away from moisture

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	P-gp inhibitor 21 (Compound 56) is a P-glycoprotein (P-gp) transport inhibitor that can reverse P-gp-mediated multidrug resistance (MDR) and demonstrates antitumor efficacy in mouse models, without significant cytotoxicity.
Targets(IC50)	P-gp
In vitro	P-gp inhibitor 21 effectively reduces the proliferation of KBV200 and NCI/ADR-RES cells when used in conjunction with VNR, with IC50 values of 2.4 nM and 27.9 nM, respectively.
In vivo	The compound P-gp inhibitor 21, administered at 75 mg/kg via intraperitoneal injection, effectively reduces tumor growth in KBV200 xenografts in BALB/c nude mice, while restoring sensitivity of multidrug-resistant (MDR) tumors to VNR, and shows no significant toxicity.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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