Reversin 121

Cat. No.:	HY-125486	
CAS No.:	174630-04-7	
Molecular Formula:	$C_{_{34}}H_{_{47}}N_{_{3}}O_{_{9}}$	\checkmark
Molecular Weight:	641.75	
Target:	P-glycoprotein	
Pathway:	Membrane Transporter/Ion Channel	Ō
Storage:	Sealed storage, away from moisture and light, under nitrogen	
	Pure form -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture	
	and light, under nitrogen)	

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5582 mL	7.7912 mL	15.5824 ml
	5 mM	0.3116 mL	1.5582 mL	3.1165 mL
	10 mM	0.1558 mL	0.7791 mL	1.5582 mL

Diological Activity				
Description	Reversin 121 is a P-glycoprotein inhibitor. Reversin 121 increases the ATPase activity of MDR1. Reversin 121 reverses P-glycoprotein-mediated multidrug resistance. Reversin 121 can be used in the research of cancers ^{[1][2]} .			
IC ₅₀ & Target	P-glycoprotein ^[1]			
In Vitro	Reversin 121 (12 μg/mL) (with <u>gemcitabine</u> (HY-17026)) reduces the proportions of tumor cells positive for MDR proteins in Panc1 cell ^[1] . Reversin 121 (5 μM) reverses the resistance against paclitaxel in paclitaxel-resistant NCI-H460 cell ^[2] . Reversin 121 (10 μM, 48 h) inhibits T cell proliferation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Reversin 121 (2.5 mg/kg, plus 5-fluorouracil, 35 mg/kg/day, i.p.) decreases tumor size and prevalence of metastases ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet



Animal Model:	Orthotopic pancreatic carcinoma mouse model ^[1] .
Dosage:	2.5 mg/kg, plus 5-fluorouracil, 35 mg/kg/day
Administration:	Intraperitoneal injection (i.p.), 5 days a week
Result:	Decreased in MRP3-positive cells.

REFERENCES

[1]. Hoffmann K, et al. Effects of the high-affinity Peptide reversin 121 on multidrug resistance proteins in experimental pancreatic cancer. Tumour Biol. 2008;29(6):351-8.

[2]. Yabuki N, et al. Gene amplification and expression in lung cancer cells with acquired paclitaxel resistance. Cancer Genet Cytogenet. 2007 Feb;173(1):1-9.

[3]. Kooij G, et al. P-glycoprotein acts as an immunomodulator during neuroinflammation. PLoS One. 2009 Dec 8;4(12):e8212.

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

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