TEI-9648

Cat. No.:	HY-12398A	HO
CAS No.:	173388-21-1	//
Molecular Formula:	C ₂₇ H ₃₈ O ₄	н
Molecular Weight:	426.59	
Target:	VD/VDR	\rightarrow
Pathway:	Vitamin D Related/Nuclear Receptor	
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	, CO O

SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3442 mL	11.7209 mL	23.4417 mL
	5 mM	0.4688 mL	2.3442 mL	4.6883 mL
	10 mM	0.2344 mL	1.1721 mL	2.3442 mL

BIOLOGICAL ACTIV	
Description	TEI-9648, a Vitamin D ₃ Lactone analogue, is a potent and specific vitamin D receptor (VDR) antagonist. TEI-9648 inhibits VDR/VDRE-mediated genomic actions of 1α,25(OH) ₂ D ₃ . TEI-9648 also inhibits HL-60 cell differentiation induced by of 1α,25(OH) ₂ D ₃ . OH) ₂ D ₃ . TEI-9648 has the potential for bone metabolism research ^{[1][2]} .
In Vitro	TEI-9648 (10-1000 nM) dose-dependently blocks the reciprocal changes of CD11b and CD71 expression associated with HL- 60 cell differentiation induced by 1α ,25(OH) ₂ D ₃ ^[1] . TEI-9648 has consistently weaker suppressive effect than TEI-9647 ^[1] . TEI-9648 can not induce cell differentiation even after treatment at 1 µM in HL-60 cell ^[1] . TEI-9648 alone can not induce activation of NBT-reducing activity or α -NB esterase activity. In contrast, TEI-9648 markedly suppresses the up-regulation induced by 1α ,25(OH) ₂ D ₃ (0.1 nM) in HL-60 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Miura D, et al. Antagonistic action of novel 1a,25-dihydroxyvitamin D₃-26, 23-lactone analogs on differentiation of human leukemia cells (HL-60) induced by 1a,25-

"OH



dihydroxyvitamin D₃. J Biol Chem. 1999 Jun 4;274(23):16392-9.

[2]. Kazuya Takenouchi, et al. Synthesis and structure-activity relationships of TEI-9647 derivatives as Vitamin D₃ antagonists. J Steroid Biochem Mol Biol. 2004 May;89-90(1-5):31-4.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA