

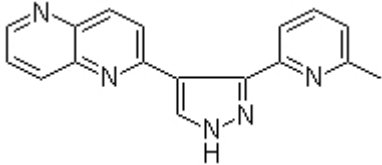


Product Introduction

RepSox

RepSox is a potent and selective inhibitor of the **TGF β R-1/ALK5** with **IC₅₀** of 23 nM and 4 nM for ATP binding to ALK5 and ALK5 autophosphorylation, respectively.

Technical Data:

Molecular Weight (MW):	287.32	
Formula:	C ₁₇ H ₁₃ N ₅	
Solubility (25°C)	DMSO 57 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol <1 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	446859-33-2	

Biological Activity

RepSox inhibits ATP binding to ALK5 and ALK5 autophosphorylation with IC₅₀ of 23 nM and 4 nM, respectively. RepSox inhibits TGF- β induced cellular PAI-1 luciferase activity with IC₅₀ of 18 nM. ^[1] RepSox is able to successfully replace Sox2 in reprogramming by inhibiting transforming growth factor- β (Tgf- β) signaling, which in turn induces Nanog expression. Effect of RepSox inducing reprogramming does not require chromatin remodeling. RepSox is found to be efficient at generating iPSCs. ^[2] RepSox is able to contribute to forming chimeric embryos in vivo when injected into blastocysts. A

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one-day treatment with RepSox is sufficient to replace transgenic Sox2. [2]

References

[1] Gellibert F, et al. J Med Chem, 2004, 47(18), 4494-4506.

[2] Ichida JK, et al. Cell Stem Cell, 2009, 5(5), 491-503.



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