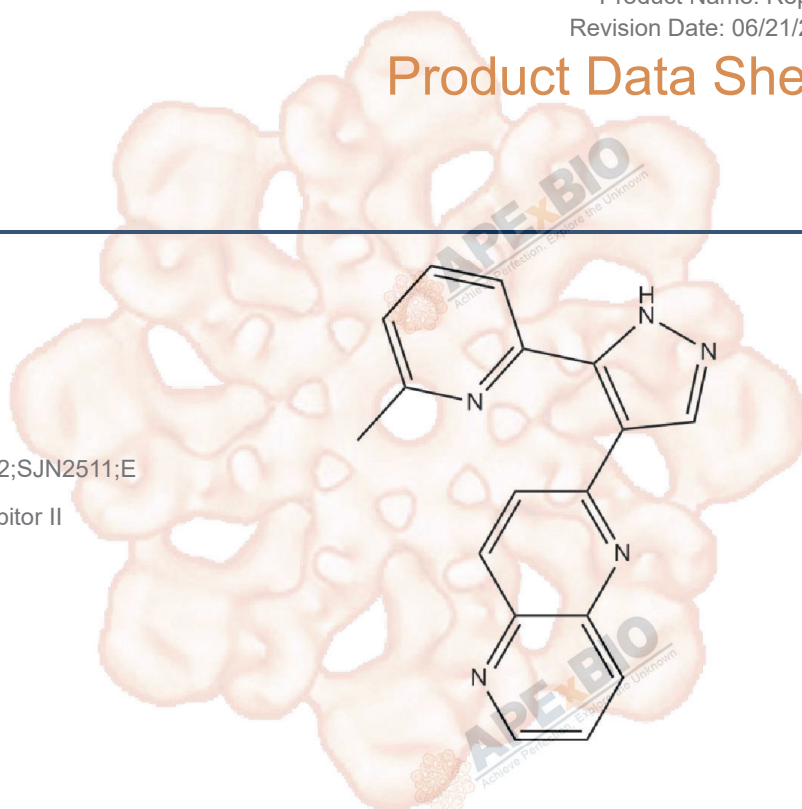


Product Data Sheet

RepSox

Cat. No.:	A3754
CAS No.:	446859-33-2
Formula:	C ₁₇ H ₁₃ N ₅
M.Wt:	287.32
Synonyms:	E-616452;SJN 2511;E616452;SJN2511;E616452;SJN-2511,ALK5 Inhibitor II
Target:	TGF- β / Smad Signaling
Pathway:	SMAD
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥ 14.35 mg/mL in DMSO; ≥ 47.9 mg/mL in EtOH with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.4804 mL	17.4022 mL	34.8044 mL
	5 mM	0.6961 mL	3.4804 mL	6.9609 mL
	10 mM	0.3480 mL	1.7402 mL	3.4804 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

ALK5 inhibitor,potent and selective

IC₅₀ & Target

4 nM (ALK5)

Cell Viability Assay

In Vitro

Cell Line: MEFs

Preparation method: The solubility of this compound in DMSO is > 14.4 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored

		below - 20 °C for several months.
	Reacting conditions:	25 μ M; 3 days
	Applications:	In MEFs pretreated with RepSox, which were then transfected with Oct4, Klf4 and cMyc, there was no Oct4::GFP+ colony formed. The result showed the TGFβR-1-associated expression of L-Myc was increased by 5-fold after RepSox treatment.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Ichida J K et al. , A small molecule inhibitor of Tgaf-β signaling replaces Sox2 in reprogramming by inducing Nanog. Cell Stem Cell, 2009, 5(5): 491-503.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com