

Product Name: A 83-01 Revision Date: 11/25/2024

Product Data Sheet

A 83-01

Cat. No.: A3133

CAS No.: 909910-43-6 **Formula:** C25H19N5S

M.Wt: 421.52

Synonyms: A83-01; A-83-01

Target: TGF-β / Smad Signaling

Pathway: TGF- β R1(ALK5) Storage: Store at -20°C

Solvent & Solubility

≥21.1 mg/mL in DMSO; insoluble in H2O; ≥9.82 mg/mL in EtOH with gentle warming and ultrasonic

Mass Solvent 1mg 5mg 10mg Preparing Concentration In Vitro Stock Solutions 1 mM 2.3724 mL 11.8618 mL 23.7237 mL 5 mM 0.4745 mL 2.3724 mL 4.7447 mL 10 mM 0.2372 mL 1.1862 mL 2.3724 mL

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

Biological Activity

Shortsummary ALK-	ALK-5 inhibitor		
IC ₅₀ & Target 12 nl	12 nM (ALK5), 45 nM (ALK4), 7.5 nM (ALK7)		
Cell	Cell Viability Assay		
Cell	Line: April 1	Mv1Lu and C2C12 cells	
Prep	aration method:	The solubility of this compound in DMSO is > 21.1 mg/mL. General tips for	
In Vitro		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.	
	cting conditions:	0.01 ~ 10 μM; 1 hr	

	Applications:	In Mv1Lu cells, A-83-01 reduced the level of TGF-β-induced transcription in a
		concentration-dependent manner, with the IC50 value of 25 nM. On the other
		hand, for BMP-induced transcriptional activity in C2C12 cells, A-83-01 showed
		no effect at the dose of 1 μ M. However, at the concentrations over 3 μ M,
	B Interove	A-83-01 slightly suppressed the transcriptional activity induced by BMP4.
In Vivo	Animal experiment	A DE LEGISLE
	Applications:	The control

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Tojo M, Hamashima Y, Hanyu A, et al. The ALK-5 inhibitor A-83-01 inhibits Smad signaling and epithelial-to-mesenchymal transition by transforming growth factor-β. Cancer science, 2005, 96(11): 791-800.

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.

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