ALK5 Inhibitor II

TGF-β type I receptor kinase (ALK5) inhibitor

ALK5 inhibitor II is a cell permeable, potent, selective and ATP-competitive inhibitor of TGF-β RI kinase (IC_{50}=23nM, 4nM and 18nM for binding, auto-phosphorylation, and cellular assay in HepG2 cells of TGF-β RI kinase, respectively). It minimally affects a panel of nine closely related kinases including p38 MAPKand GSK3 (IC_{50}>16μM). It can be used for the induction of the pluripotency of stem cells by replacing the transcription factor SOX2 via the inhibition of TGF-β signaling and inducing the expression of the transcription factor Nanog.

Citations: 52 View Online »

Ordering Information

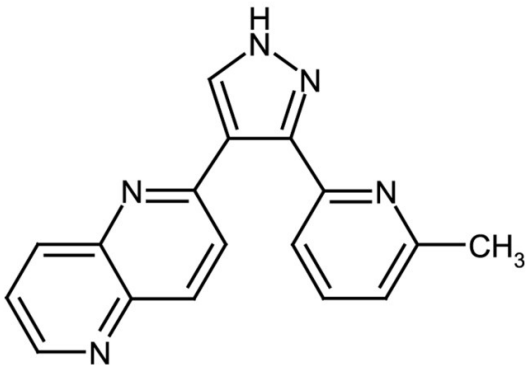
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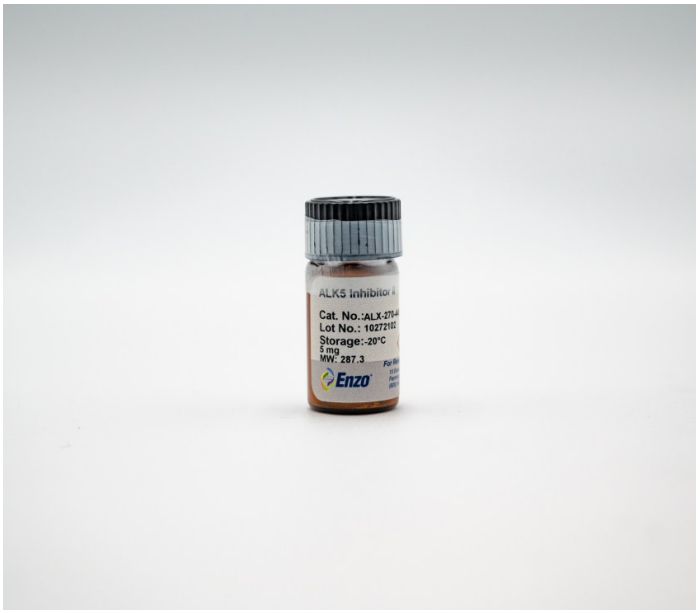
ALX-270-445-M001	1mg
ALX-270-445-M005	5mg

Manuals, SDS & CofA

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- Potent ATP-competitive inhibitor of the TGF-β type I receptor ALK5
- Useful for cellular reprogramming and the culture of human pluripotent stem cells
- Active *in vitro* and *in vivo*
- GMP format available


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CH3


ALK5 Inhibitor
Cat. No.:ALX-270-
Lot No.: 10272102
Storage:-20°C
5 mg
MW: 287.3
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for 2 years after receipt when stored at -20°C. Stock solutions are stable for up to 6 months when stored at -20°C.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	TGF-β RI Kinase Inhibitor II, 2-(3-(6-Methylpyridin-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine, RepSox, E-616452, SJN 2511
Appearance	White to off-white or yellow solid.
CAS	446859-33-2
Couple Target	TGF-beta receptor
Couple Type	Inhibitor
Formula	$C_{17}H_{13}N_5$
Identity	Identity determined by NMR.
MW	287.3
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (5 mg/ml) or methanol (5 mg/ml).

Last modified: February 18, 2025

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