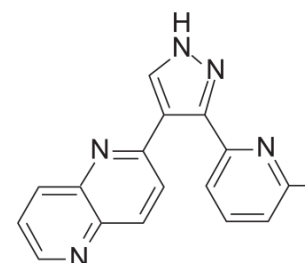


RepSox

Catalog Number: ST10021



Size	5 mg
Description	Selective inhibitor of the TGF- β type I receptor ALK5 (IC ₅₀ values are 0.004 and 0.023 μ M for ALK5 autophosphorylation and ALK5 binding respectively). Selective for ALK5 over a range of kinases, including p38 MAPK, JNK1, and GSK3 (IC ₅₀ > 16 μ M). RepSox has been shown to enhance the efficiency of cellular reprogramming and can replace Sox2 by inducing Nanog expression.
Molecular Weight	287.3
Molecular Formula	C ₁₇ H ₁₃ N ₅
Chemical Name	2-[5-(6-methylpyridin-2-yl)-1H-pyrazol-4-yl]-1,5-naphthyridine
CAS Number	446859-33-2
PubChem Identifier	449054
Appearance	Yellow solid
Purity	>99% by HPLC analysis
Solubility	Soluble in DMSO at 100 mM
Reconstitution	For a 10 mM concentrated stock solution, reconstitute the compound by adding 1.74 mL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes.
Recommended Usage	For use in cell culture, warm medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 μ M low-protein binding filter. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	<p>Ichida, J.K., et al. (2009) A small-molecule inhibitor of tgf-Beta signaling replaces sox2 in reprogramming by inducing nanog. <i>Cell Stem Cell</i> 5: 491-503. PMID: 19818703.</p> <p>Gellibert, F., et al. (2004) Identification of 1,5-naphthyridine derivatives as a novel series of potent and selective TGF-beta type I receptor inhibitors. <i>J Med Chem</i> 47: 4494-4506. PMID: 15317461.</p> <p>Solanki, A., et al. (2010) A step closer to complete chemical reprogramming for generating iPS cells. <i>Chembiochem</i> 11: 755-757. PMID: 20183843.</p>

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