

ALK5 Inhibitor (RepSox) hydrochloride

Catalog Number :2310749

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: RepSox, ALK5 Inhibitor II, E616452

Chemical Name:

2-[3-(6-methyl-2-pyridinyl)-1H-pyrazol-4-yl]-1,5-naphthyridine, monohydrochloride

Molecular Formula: C₁₇H₁₃N₅ HCl

Molecular Weight: 323.8

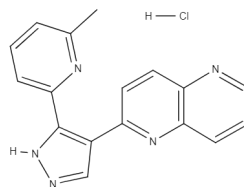
CAS Number: 2319939-07-4

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

The ALK5 inhibitor selectively inhibits TGF-Beta receptor signaling, useful for enhancing the efficiency of cellular reprogramming. It is also reported to induce the differentiation of pancreatic progenitor cells into insulin-producing cells.

Preparation & Storage

Soluble in organic solvents such as ethanol up to 0.5mg/ml and PBS pH7.2 up to 0.2mg/ml

References

1. Woltjen, K., Stanford, W. L. (2009). Inhibition of Tgf-β Signaling Improves Mouse Fibroblast Reprogramming.; Cell stem cell,;5(5), 457-458.
2. Larsen, D. M. (2013).; Evaluation of the TGF-beta inhibitor RepSox on the expression of pluripotency pathways in murine and bovine cells. UTAH STATE UNIVERSITY.
3. Jajosky, A. N., Coad, J. E., Vos, J. A., Martin, K. H., Senft, J. R., Wenger, S. L., Gibson, L. F. (2014). RepSox Slows Decay of CD34+ Acute Myeloid Leukemia Cells and Decreases T Cell Immunoglobulin Mucin-3 Expression. Stem cells translational medicine,;3(7), 836.