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Catalog	Unit
TBI4546-5MG	5 mg
TBI4546-25MG	25 mg

### Product Details

**Formal Name:** 2-(3-(6-Methylpyridine-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine

**Alternate Names:** E-616452; SNJ 2511; 616452

**Molecular Formula:** C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>

**Formula Weight:** 287.30

**CAS Number:** 446859-33-2

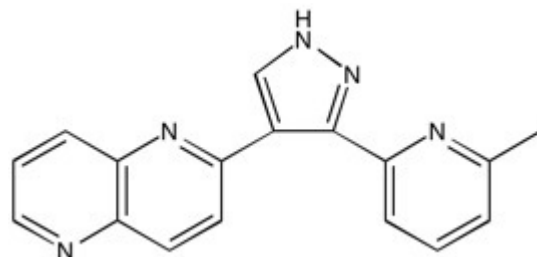
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 10 mg/ml)

**Storage:** -20°C

**Stability:**  $\geq$  2 years.



### Applications

TGF $\beta$ R-1 / ALK5 inhibitor

### Functions

RepSox is a potent inhibitor of the TGF- $\beta$  type I receptor (ALK5), IC<sub>50</sub> ALK5 auto-P= 4 nM and IC<sub>50</sub> TGF- $\beta$  cellular assay = 23 nM. RepSox can replace Sox2 in reprogramming adult cells into pluripotent stem cells via induction of Nanog transcription. It was able to convert astrocytes into neuronal cells as part of a small molecule cocktail (along with valproic acid and CHIR99021).

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**For research use only.**