



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Product Information

**Description**

RepSox is an inhibitor of TGF- $\beta$  type I receptor (ALK5). RepSox can reprogram adult cells into pluripotent stem cells via induction of Nanog transcription.

**Background:**

RepSox is a TGF- $\beta$ I receptor kinase inhibitor, that can replace SOX2 (SRY-box 2) during the reprogramming of adult cells into iPS (induced pluripotent) cells, by inducing transcription of Nanog. It also supports RPE (retinal pigmented epithelium) differentiation from iPS cells, increasing the expression of epithelial markers, RPE-specific genes and supporting cell viability in 3D cultures. In addition, it was proposed that RepSox could be useful as therapeutic for obesity and type 2 diabetes, as RepSox alone was sufficient to promote differentiation of brown fat precursor cells and browning of white fat, which have been considered as treatment strategies for those disorders. Its application may extend to the treatment of OS (osteosarcoma), as it was able to induce S-phase cell arrest and apoptosis of OS cell line models, and *in vivo* xenograft models. RepSox is thus a molecule of high interest in multiple research fields.

**Chemical Name:**

2-(3-(6-Methylpyridine-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine; E-616452; SNJ 2511

**Molecular Formula:**

C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>

**Supplied As:**

Solid

**Solubility:**

Soluble in DMSO (>25 mg/ml); ethanol (10 mg/ml)

**Storage/Stability:**

Upon receipt, store at -20°C. Stable for 1 year from date of receipt, when stored as directed. Solutions are stable for up to 1 month at -20°C.

**MW:**

287.32 Da

**Cas No.**

446859-33-2

**Purity:**

≥99% by HPLC

**References:**

Ichida J., *et al.*, 2009 *Cell Stem Cell* 5(5):491-503.

Want W., *et al.*, 2024 *Journal of Biological Engineering* 18:7.

Tu W., *et al.*, 2019 *Acta Pharmacologica Sinica* 40:1523-1531.

He W., *et al.*, 2021 *Int J Oncol* 59(5):84.

## Chemical Structure

