StemMACS™ RepSox

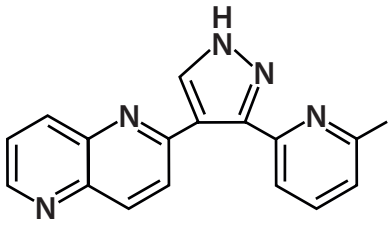
10 mg 130-117-340

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1. Description

Components	10 mg StemMACS™ RepSox
Product format	Yellow solid
Molecular mass	287.32
CAS number	446859-33-2
Systematic name	2-(3-(6-methylpyridine-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine
Molecular formula	$C_{17}H_{13}N_5$



Purity	>99%
Solubility	Soluble in DMSO (up to 100 mM upon warming).
Storage	Store powder at –20 °C. After reconstitution, store aliquots at –20 °C. The expiration date is indicated on the label. Protect from light.

1.1 Background information

StemMACS™ RepSox is an inhibitor of the TGF-beta type I receptor ALK5. RepSox prevents autophosphorylation of the ALK5 receptor. It has been shown to promote reprogramming efficiency by replacing Sox2 and inducing Nanog.

2. Protocol

2.1 Preparation of stock solution

Effective concentrations of StemMACS RepSox for cell culture applications range from 100 nM to 25 µM. A 10 mM stock solution in DMSO will be appropriate for most applications and can be prepared as follows:

1. Reconstitute the entire vial contents by adding 3480 µL of pure DMSO. Warm to 37 °C for 3–5 minutes to facilitate solubilization.

   ▲ **Note:** The vial may have turned upside down during transportation. Gently tap prior to reconstitution to collect all powder at the bottom of the vial.

2. Prepare appropriate aliquots and store at –20 °C. Avoid repeated freeze-thaw cycles.

   ▲ **Note:** The DMSO concentration in culture should not exeed 0.5 %. Stock solutions of alternate concentration can be prepared using the following table. Add the solvent directly to the vial, it will hold up to 4 mL.

Desired stock	1 mM	10 mM	20 mM	50 mM
Volume of DMSO to add	Dilute 1:10 from a 10 mM stock	3480 µL	1740 µL	696 µL

2.2 Use in cell culture

1. Thaw aliquots at 37 °C as needed.
2. To avoid precipitation, prewarm the cell culture media prior to adding the reconstituted compound.
3. Mix and filter the supplemented media through a 0.2 µm low-protein binding filter.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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