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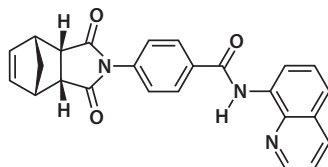
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## 1. Description

<b>Components</b>	StemMACS™ IWR-1-endo.
<b>Size</b>	5 mg
<b>Product format</b>	Off-white solid
<b>Molecular weight</b>	409.44
<b>CAS number</b>	1127442-82-3
<b>Systematic name</b>	4-[(3aR,4S,7R,7aS)-1,3,3a,4,7,7a-Hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl]-N-8-quinolinyl-benzamide

**Molecular formula** C<sub>25</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>

### Structure



<b>Purity</b>	>98%
<b>Solubility</b>	Soluble in DMSO (up to 70 mM).
<b>Storage</b>	Store powder at -20 °C. After reconstitution, store aliquots at -20 °C. Protect from light.

#### 1.1 Background information

StemMACS™ IWR-1-endo is a potent inhibitor of the Wnt signaling pathway. It stabilizes the Axin-scaffolded destruction complex, thereby promoting  $\beta$ -catenin phosphorylation and degradation. In cell culture reporter assays IWR-1-endo inhibits Wnt/ $\beta$ -catenin signaling with an IC<sub>50</sub> value of 180 nM.

## 2. Protocol

### 2.1 Preparation of stock solution

Effective concentrations of StemMACS IWR-1-endo for cell culture applications range from 1  $\mu$ M to 10  $\mu$ M. A 5 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 2442  $\mu$ L 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 exceed 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	5 mM	10 mM	20 mM
Volume of DMSO to add	Dilute 1:10 from a 10 mM stock	2442 $\mu$ L	1221 $\mu$ L	611 $\mu$ L

### 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  $\mu$ m low-protein binding filter.

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