

StemMACS™ IWP-2

2 mg 130-105-335

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1. Description

Components StemMACS™ IWP-2. A small molecule

inhibitor of Wnt signaling.

Size 2 mg
Product format White solid
Molecular weight 466.6

CAS number 686770-61-6

Systematic name *N*-(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-

tetra hydro-4-oxo-3-phenylthieno [3,2-d]

pyrimidin-2-yl)thio]-acetamide

Molecular formula C22H18N4O2S3

Structure

Purity >98%

Solubility Soluble in DMSO.

Storage Store powder at -20 °C. After reconstitution,

store aliquots at -20 °C. Protect from light.

1.1 Background information

StemMACSTM IWP-2 inactivates the membrane-bound O-acyltransferase Porcupine (Porcn) which mediates palmitylation of Wnt proteins. Inhibition of Porcn prevents Wnt secretion and thus blocks activation of the Wnt signaling pathway. Consistent with the missing Wnt ligand, levels of phosphorylated Lrp6 and Dvl2 are decreased in the presence of IWP-2 and β -catenin cannot accumulate.

2. Protocol

2.1 Preparation of stock solution

- 1. Reconstitute the entire vial contents by adding 857.3 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.
- 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	2.5 mM	5 mM
Volume of DMSO to add	Dilute 1:5 from a 5 mM stock	1714.6 μL	857.3 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.

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