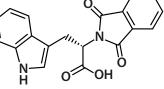


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1. Description

Components	StemMACS [™] RG108. A small molecule DNA methyltransferase inhibitor.		
Size	10 mg		
Product format	Off-white solid		
Molecular weight	334.44		
CAS number	48208-26-0		
	(s)-2-(1,3-Dioxo-1,3-dihydro-2 <i>H</i> -isoindol-2-yl)- 3-(1 <i>H</i> -indol-3-yl)propanoic acid		
Molecular formula	$C_{19}H_{14}N_2O_4$		
Structure			
	0.		



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

Purity	>99%	
Solubility	Soluble in DMSO and ethanol	
Storage	Store powder at -20 °C. After reconstitution,	

1.1 Background information

StemMACS[™] RG108 is a cell permeable and selective inhibitor of DNA methyltransferase (DNMT). RG108 is a non-nucleoside inhibitor that binds non-covalently and reversible to the active center (IC50 = 115 nM). It has been used as an epigenetic modifier that induces DNA demethylation and reactivation of silenced tumor suppressor genes. In pluripotent stem cell research, RG108 can enhance reprogramming efficiency.

StemMACS[™] RG108

10 mg

130-104-464

2. Protocol

2.1 Preparation of stock solution

Effective concentrations of StemMACS[™] RG108 for cell culture applications range from 20 μ M to 500 μ M. 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 2.99 mL 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	10mM	20 mM
Volume of DMSO to add	2990 μL	1495 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 μ M 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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