



## Product Specification

<b>Product name</b>	Lolina® Human BM-MSc stem-Prom® supplement kit 3, for adherent culture, Xeno Free
<b>Cat.No.</b>	NaC20130103
<b>Storage and shipping</b>	<b>NaC20130103-A,B,C:</b> Store at -20 °C. Once added to medium, store at 4°C, do not refreeze after thawing. Dry ice transportation. <b>NaC20130103-D:</b> 2-8°C.

## Product Description

Lolina® stem-Prom® supplement kit 3 is a sterile products which contains growth factors, hormones, or proteins. It mainly enhances the adhesion, proliferation and vitality of stem cells while maintaining their stemness. The kit is usually for adherent culture of BM-MSc in vitro.

This kits has the following benefit:

**Enhance cell attachment and expansion ability:** NaC20130103 can promote cell attachment and expansion on the culture matrix and enhance the interaction between cells and the matrix.

**Improve cell survival and proliferation rate:** Adding NaC20130103 can significantly improve the survival and proliferation rate of MSCs, especially under low serum or serum-free culture conditions.

**Support cell differentiation potential:** NaC20130103 can not only maintain the proliferation of MSCs, but also support their multidirectional differentiation potential.

**Provide an alternative to serum-free culture:** NaC20130103, as a serum-free culture additive, can provide a safer and more controllable cell culture environment and reduce the dependence on FBS.

## Components

Compound No.	Compounds	Size	Format
NaC20130103-A	r-Human serum albumi (HSA)	62.5mg	Lyophilized
NaC20130103-B	r-Huamn bFGF protein	2mg	Lyophilized
NaC20130103-C	r-Human Fibronectin Protein	2.5mg	Lyophilized
NaC20130103-D	SafeGluta®	2.17g	Powder

## Instructions for Use

### 1. Stock solution Preparation.

One kit is for 50ml cell culture medium.

The compounds are offered as powder in tubes. Please centrifuge before opening the cap to ensure the accuracy of the dosage.

Please carry out dissolution and packaging operations on a clean bench.

Spray the medium bottle and supplement tube with 70% ethanol and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers.

Reconstitute NaC20130103-A, B, C in sterile 0.9% NaCl solution. Aliquot into appropriate volumes of storage solution. The recommend volume is 1 mL each. Aliquot into appropriate volumes of storage solution. When stored at -20°C, the stock solution is stable for 6 month. When stored at 4 °C, the stock solution is stable for 1 week.

Reconstitute NaC20130103-D in sterile 0.9% NaCl solution. The recommend volume is 5 mL. Aliquot into appropriate volumes of storage solution. When stored at 2-8 °C, -20°C, the stock solution is stable for 24 month.

## 2. Reference Protocol

### Step 1: Culture medium Preparation

- a. Thaw stock solutions of Lolina® Human BM-MSC stem-Prom® supplement kit 3.
- b. Dilute the stock solutions into regular culture medium without L-Glutamine to get complete culture medium.

### Step 2: Cell culture

- c. Rapidly thaw frozen BM-MSC vials in a 37°C water bath.
- d. Transfer cells to a sterile conical tube with pre-warmed medium.
- e. Centrifuge at 300g for 5 minutes to pellet cells.
- f. Resuspend the cell pellet in complete culture medium plate into culture dishes/flasks.
- g. Change the medium every 2-3 days.

## Note

**Cell Density:** Avoid over-confluence to maintain MSC multipotency.

**Medium Preparation:** Always prepare fresh medium, even though SafeGluta® enhances stability.

**Contamination Control:** Use aseptic techniques to prevent contamination.