CAPTIVATE BIO

Instructions for Use
CET Cocktail Kits

- **CET Spark™** CET02B 1 Kit
- **CET Ignite™** CET01B 1 Kit
- **CET Titan™** CET03B 1 Kit

Storage

Refer to Technical Data Sheets and SDS for additional compound storage, solubilization, and safety information. Store components tightly sealed as lyophilized powder or as separate aliquots of prepared concentrated stock solutions.

The final working solution of each compound should be made independently just before use in appropriate cell culture media.

Lyophilized - Store vials tightly sealed in their original container for up to 3 years at -80°C, or up to 2 years at -20°C.

In Solvent - Store individually at concentrated stock concentrations for up to 6 months at -80°C, or up to 1 month at -20°C. Avoid freeze/thaw cycles.

Reconstitution Charts

CET Spark™

Product	Cat. No.	Size (mg)	Dilution Vol (mL)	Stock Solution Concentration (mM)
Chroman 1	SML20H	1	4.58	0.5
Emricasan	SML21A	5	0.1756	50
Trans-ISRIB	SML22A	5	1.5825	7

CET Ignite™

Product	Cat. No.	Size (mg)	Dilution Vol (mL)	Stock Solution Concentration (mM)
Chroman 1	SML20A	5	22.91	0.5
Emricasan	SML21B	10	0.3512	50
Trans-ISRIB	SML22B	10	3.165	7

CET Titan™

Product	Cat. No.	Size (mg)	Dilution Vol (mL)	Stock Solution Concentration (mM)
Chroman 1	SML20A	5	22.91	0.5
Emricasan	SML21C	50	1.756	50
Trans-ISRIB	SML22Y	25	7.9125	7

Overview

Captivate Bio's CET Cocktail Kits are intended to be used according to published concentrations, including the addition of Polyamine Solution. Each kit can be tailored according to your workflow and reconstitution charts are provided as a guide only. Captivate Bio's CET Cocktail compounds are commonly used at the following concentrations:

- **Chroman 1: 50 nM**
- **Emricasan: 5 µM**
- **Trans-ISRIB: 0.7 µM**

1. Prepare stock solutions for each compound.

Chroman 1

1. To prepare a 0.5 mM (10,000X) solution, reconstitute lyophilized Chroman 1 compound in DMSO, following dilution volumes noted in reconstitution charts.
2. Vortex solution until the Chroman 1 is completely dissolved.
3. Aliquot the stock solution to smaller working volumes.

Emricasan

1. To prepare a 50 mM (10,000X) solution, reconstitute lyophilized Emricasan compound in DMSO, following dilution volumes noted in reconstitution charts.
2. Vortex solution until the Emricasan is completely dissolved.
3. Aliquot the stock solution to smaller working volumes.

Trans-ISRIB

1. To prepare a 7 mM (10,000X) solution, reconstitute lyophilized Trans-ISRIB compound in DMSO, following dilution volumes noted in reconstitution charts.
2. Gently warm the solution between 45°C and 60°C, and vortex until the Trans-ISRIB is completely dissolved.
3. Aliquot the stock solution to smaller working volumes.

2. Prepare supplemented media aliquot.

1. Just prior to use, supplement an aliquot of complete hPSC culture media with the CET small molecules 1:10,000.

   Add 0.1 µL of 10,000X stock solution of each small molecule per 1 mL of medium.
2. Add 1 µL of 1000X Polyamine Solution per 1 mL of medium.
3. Filter the prepared medium using a 0.2 µM pore size filter before use.