



Product Information

Axon ID: 2129 **Batch:** 1

Product Name: Stem Cell 3i Inhibitor Set

Content: Set of three inhibitors: SU 5402, PD184352 and CHIR99021

* Size of Set: 2 mg or 5 mg of each inhibitor in the set, individually packed into a glass vial (1.5 mL, screw cap with Silicone/PTFE septa or 4 mL with screw cap).

* Three inhibitors are in powder form (high purity: 99%), ready to be reconstituted freshly to their 10 mM solutions in DMSO respectively.

Description: A convenient set of FGFR inhibitor SU 5402 (Axon 1667), MEK inhibitor PD184352 (Axon 1368) and GSK3 inhibitor CHIR99021 (Axon 1386); This conventional 3i inhibitor set, used together to sustain mouse embryonic stem cell (mESC) self-renewal.

Axon ID / Batch	Component	Set Size (2 mg each)	Set Size (5 mg each)	Batch MW
1667 - B4	SU 5402	1 vial x 2 mg	1 vial x 5 mg	296.32
1368 - B4	PD184352	1 vial x 2 mg	1 vial x 5 mg	478.66
1386 - B14	CHIR99021	1 vial x 2 mg	1 vial x 5 mg	469.84

Stock Solution: Instruction to prepare DMSO solution:
10 mM solution of SU 5402 (2 mg in 675 μ l, 5 mg in 1687 μ l DMSO);
10 mM solution of PD184352 (2 mg in 418 μ l, 5 mg in 1045 μ l DMSO);
10 mM solution of CHIR99021 (2 mg in 425.7 μ l; 5 mg in 1064.2 μ l DMSO)
(*Samples in solutions can be provided upon your request. Please contact us.)

Storage: 4 $^{\circ}$ C or below for samples in powder form; their DMSO stock solutions, once prepared, can be stored at -20 $^{\circ}$ C and below for 6 months. Our recommendation is to use it freshly within 1 month. Protect from light and air!

Shipping: Powder samples can be shipped at ambient temperature.

Reference:

1. QL Ying et al. The ground state of embryonic stem cell self-renewal. Nature, 2008, 453, 519-523.
2. P Li et al. Germline competent embryonic stem cells derived from rat blastocysts. Cell, 2008, 135(7), 1299-1310.
3. H Kiyonari et al. Three inhibitors of FGF receptor, ERK, and GSK3 establishes germline - competent embryonic stem cells of C57BL/6N mouse strain with high efficiency and stability. Genesis, 2010, 48(5), 317-327.

Source Information: Laboratory chemicals for research use only. Not for human use.