Cat No. 20-K96

Pluripotency Set

4 compounds

For research purposes only

The Reagents Direct Pluripotency Set is composed of four small molecules that when used in combination, have been shown to help maintain the pluripotency of embryonic stem cells. This set contains four signaling inhibitors; ROCK inhibitor Y27632 (2mg), MEK inhibitor PD0325901 (2mg), ALK5 inhibitor A83-01 (2mg) and GSK-3β inhibitor CHIR99021 (2mg).

TECHNICAL INFORMATION

Components of set:

- Y27632 (2mg)
- PD0325901 (2mg)
- A83-01 (2mg)
- CHIR99021 (2mg)

Chemical Formula:

- Y27632; $C_{14}H_{21}N_3O \cdot 2HCl$
- PD0325901; $C_{16}H_{14}F_3IN_2O_4$
- A83-01; $C_{25}H_{19}N_5S$
- CHIR99021; $C_{22}H_{18}Cl_2N_8$

CAS Number:

- Y27632; 146986-50-7
- PD0325901; 391210-10-9
- A83-01; 909910-43-6
- CHIR99021; 252917-06-09

Molecular Weight:

- Y27632; 320.3
- PD0325901; 482.19
- A83-01; 421.52
- CHIR99021; 465.34

Purity: >98%

Appearance: a crystalline solid

Solubility: DMSO

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. See individual product specifications sheet for solubility information. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Kawamata et al. (2010) Generation of genetically modified rats from embryonic stem cells. Proc Natl Acad Sci USA. 107(32)14223-8.