

StemBoost™ Reprogramming Cocktail, SMC4

CATALOG #: S231-1 1 ml
S231-5 5 ml
S231-set 5 x 1 ml

STORAGE: Store at -20°C. Protect from light.

DESCRIPTION: SMC4 is a **Small Molecule Cocktail** of **4** inhibitors in DMSO solution. This media additive supports the derivation of hiPSCs (Human induced Pluripotent Stem Cells) in feeder or feeder-free culture environments. Use of this media additive increases efficiency of reprogramming, enhances clonality and tolerance to single cell and enables enzymatic passaging. The four products are shown in the following table:

Product	Cat. No.	Concentration (100X)	Target Enzymes
Thiazovivin	1681	500 µM	Rho/ROCK
CHIR99021	1677	100 µM	GSK-3
PD-0325901	1643	40 µM	ERK/MEK
SB-431542	1674	200.0 µM	TGFβ/ALK5

REFERENCES: Valamehr, B., *et al.* (2012). *Sci. Rep.* **2**, 213

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

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RELATED PRODUCTS:

DiscoveryPak™ Stem Cell Fate Regulator Set I (**Cat. No. K852-3**)
DiscoveryPak™ Stem Cell Fate Regulator Set II (**Cat. No. K853-8**)
DiscoveryPak™ Stem Cell Fate Regulator Set III (**Cat. No. K854-3**)
DiscoveryPak™ Stem Cell Fate Regulator Set IV (**Cat. No. K855-3**)
DiscoveryPak™ Stem Cell Fate Regulator Set V (**Cat. No. K865-5**)
DiscoveryPak™ Stem Cell Fate Regulator Set VI (**Cat. No. K866-5**)
DiscoveryPak™ Stem Cell Fate Regulator Set VII (**Cat. No. K867-10**)
DiscoveryPak™ Stem Cell Fate Regulator Set VIII (VC6T) (**Cat. No. K887-4**)
(±) –Bay K 8644 (**Cat. No. 1682-5**)
BIX01294 (**Cat. No. 1678-5, 25**)
CHIR99021 (**Cat. No. 1677-5, 25**)
EZSolution™ CHIR99021 (**Cat. No. 1748-5**)
PD0325901 (**Cat. No. 1643-2**)
PS-48 (**Cat. No. 1869-5**)
Pyrintegrin (**Cat. No. 1729-1,5**)
EZSolution™ Pyrintegrin (**Cat. No. 1737-1**)
RepSox (**Cat. No. 1894-5, 25**)
Reversine (**Cat. No. 1851-1, 5**)
RG 108 (**Cat. No. 1679-10,30**)
SB-431542 (**Cat. No. 1674-1**)
EZSolution™ SB-431542 (**Cat. No. 1872-1**)
Sodium Butyrate (**Cat. No. 1609-100, 1000**)
Thiazovivin (**Cat. No. 1681-1,5**)
EZSolution™ Thiazovivin (**Cat. No. 1736-1**)
Tranylcypromine Hemisulfate (Parnate) (**Cat. No. 1816-25,100**)
Valproic Acid, Sodium Salt (**Cat. No. 1647-200**)
Y-27632,2 HCl (**Cat. No. 1596-1, 5, 50**)
EZSolution™ Y-27632, HCl (**Cat. No. 1784-5**)

FOR RESEARCH USE ONLY! Not to be used on humans.