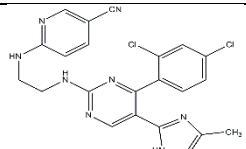
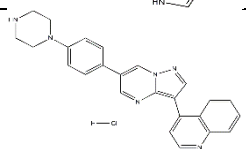
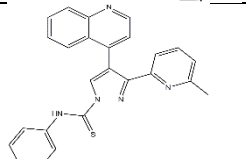
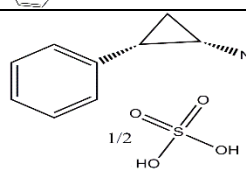
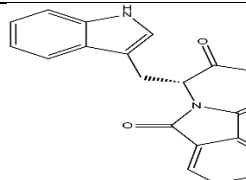
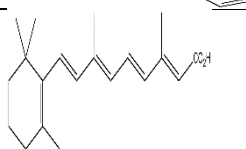
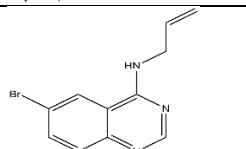
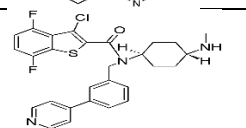


StemBoost™ Neural Stem Cell Reprogramming Cocktail (100X)

CATALOG#: S238-1, 5
AMOUNT#: 1 ml, 5 ml
STORAGE: -20° C. Protect from air and moisture

DESCRIPTION: A convenient, sterile-filtered cocktail solution (100X, in DMSO) containing eight (8) small molecules useful for reprogramming of fibroblasts into neural stem cells. The eight products are shown in the following table:

Product	Cat. No.	Function	Structure	Working concentration	M.W.
CHIR99021	1677	GSK-3 inhibitor		3 µM	465.34
LDN193189 HCl	1995	BMP type I and ALK2/ALK3 inhibitor		100 nM	442.94
A83-01	1725	Potent inhibitor of TGF-β type I receptor ALK5 kinase		0.5 µM	421.52
Tranylcypromine Hemisulfate	1816	Inhibitor of lysine-specific demethylase I and monoamine oxidase		2 µM	182.1
RG 108	1679	DNA methyltransferase inhibitor		10 µM	334.33
Retinoic acid	2218	Retinoic acid Receptor (RAR) agonist		1 µM	300.44
SMER28	1856	Positive autophagy regulator		10 µM	264.12
Hh Ag 1.5	B2160	Hedgehog pathway agonist		0.5 µM	526.04

REFERENCES:

Zhang, M., *et al.* (2016). *Cell Stem Cell* **18**, 653-667.

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**)
Tranlycypromine 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.