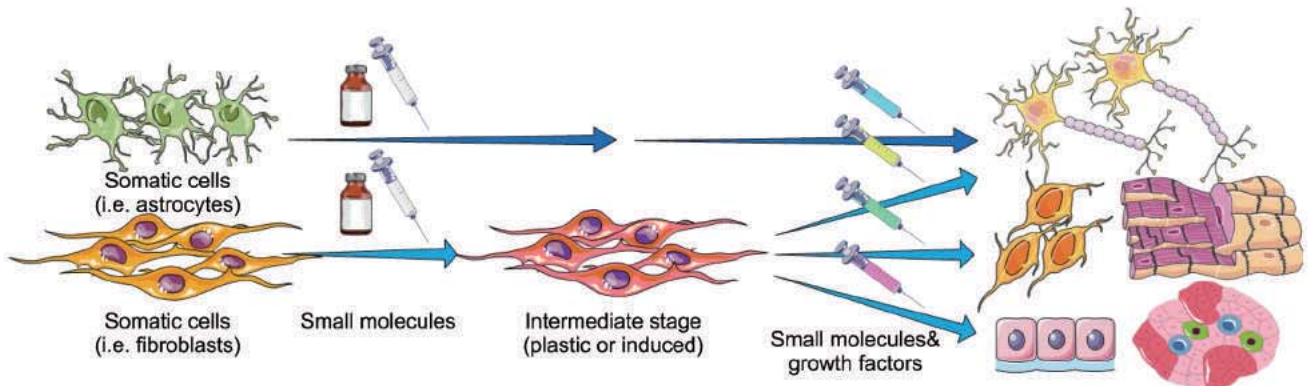


# Chemical iPSCs 연구자들을 위한 TOCRIS Small Molecules To investigate Chemical iPSCs

High Performance Life science reagents TOCRIS 제품들을 **웅비메디텍**에서 만나십시오!



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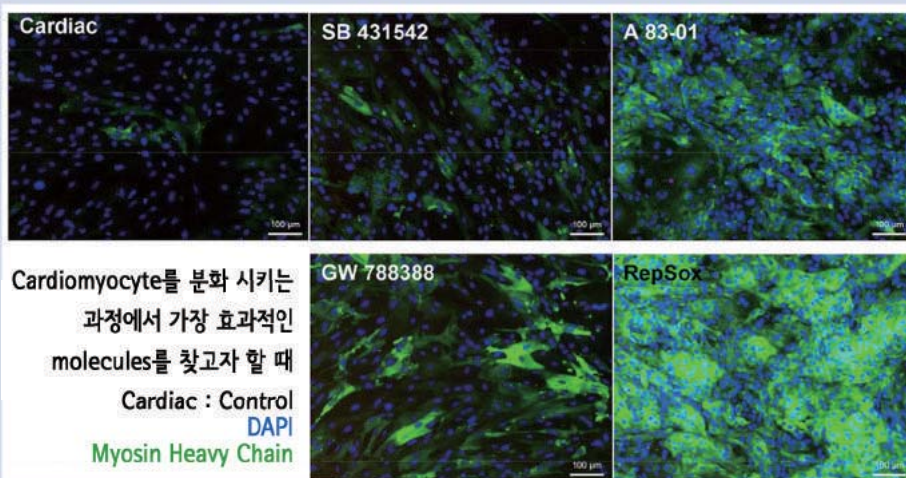
**iPSCs 유도 시 발생하는 문제점들을 극복하기 위한 Chemical iPSCs 연구 !!**

**이를 위해 TOCRIS가 High Performance Small Molecules를 제공해 드립니다.**

**뒷 장 CiPSCs를 유도하고 iPSCs 유도를 향상 시켜주는 Lists 확인 !!**

## Related Product

### *Tocriscreen Stem Cell Toolbox ( #5060 )*



- Stem Cell 관련 Copound 80개
- Ready to use 10mM DMSO
- 98%이상의 고순도 compounds
- 최상의 Key molecules 모음



**Small molecules that enhance iPSC generation efficiency and quality**

<Reference: Stem Cells International Vol. 2015>

Cat #	Product Name	Target or Signaling Pathway	Available Species	Efficiency and Necessity	Reference
2815	Valproic acid, sodium salt	HDAC inhibitor	Mouse / Human	> 100-fold	Huangfu et al. (2008)
4652	SAHA	HDAC inhibitor	Mouse	10-fold	Huangfu et al. (2008)
1406	Trichostatin A	HDAC inhibitor	Mouse	10-fold	Huangfu et al. (2008)
3850	Sodium butyrate	HDAC inhibitor	Mouse / Human	100-fold	Maji et al. (2010)
3842	5-Azacytidine	DMNT inhibitor	Mouse	3-fold	Mikkelsen et al. (2008)
0760	AM 580	Retinoic acid receptor agonist	Mouse	~ 200-fold	Wang et al. (2011)
3852	Tranylcypromine hydrochloride	H3K4 Demethylation inhibitor (Epigenetic modulator)	Mouse	3-fold	Li et al. (2009)
4703	3-Deazaneplanocin A hydrochloride	Epigenetic modulators	Mouse	65-fold	Hou et al. (2013)
0761	TTNP8	Retinoic acid receptor Ligand	Mouse	15-fold	Hou et al. (2013)
1614	SB 431542	ALK4, ALK5, and ALK7 inhibitor	Human	~ 200-fold	Lin et al. (2009)
4192	PD 0325901	Selective MEK/ERK inhibitor	Human	~ 200-fold	Lin et al. (2009)
3845	Thiazovivin	Rho-associated protein kinase inhibitor	Human	~ 200-fold	Lin et al. (2009)
1254	Y-27632 dihydrochloride	Rho-associated protein kinase inhibitor	Human	Improve generation and maintaining	Claassen et al. (2009)
2939	A 83-01	TGF-beta inhibitor	Mouse / Human	7-fold	Zhu et al. (2010)
1292	Rapamycin	Mtor inhibitor	Mouse	4.8-fold	Chen et al. (2011)
2296	Prostaglandin E2	cAMP agonist	Mouse	Efficient in mixture	Hou et al. (2013)
0905	Rollipram	cAMP agonist	Mouse	Efficient in mixture	Hou et al. (2013)
1140	8-Bromo-cAMP, sodium salt	cAMP-dependent protein kinase activator	Human	6.5-fold	Wang et al. (2011)
1125	Quercetin	HIF pathway activator	Human	3-fold	Zhu et al. (2010)

**Small molecule compounds that might replace Yamanaka factors**

<Reference: Stem Cells International Vol. 2015>

Cat #	Product Name	Replacement for TF	Available Species	Function or Targets	Reference
4652	SAHA	Oct4, Nanog	Mouse	Histone deacetylase inhibitor	Pandian et al. (2014)
3295	RG 108	Sox2(with BIX 01294) or Oct4	Mouse	DMNT inhibitor	Shi et al. (2008)
3364	BIX 01294	Oct4	Mouse	G9a HMTase inhibitor	Shi et al. (2008)
4423	CHIR 99021	Sox2	Mouse / Human	GSK-3 beta inhibitor that activates Wnt signaling pathway	Li et al. (2011)
1398	Kenpaullone	Klf4	Mouse	GSK-3/CDKs inhibitor	Lyssiotis et al. (2009)
3742	RepSox	Sox2	Mouse / Human	TGF-beta inhibitor (ALK inhibitor II)	Ichida et al. (2009)
2718	LV 364947	Sox2	Mouse	TGF-beta inhibitor	Staerk et al. (2011)
1397	pp 1	Sox2	Mouse	Src family tyrosine kinase inhibitor	Staerk et al. (2011)
2902	D 4476	Oct4 with FSK and 2-Me-5HT	Mouse	CKI inhibitor	Hou et al. (2013)
1544	(±)-Bay K 8644	Sox2	Mouse	An L-channel calcium agonist	Shi et al. (2008)
1099	Forskolin (FSK)	Oct4, when used with 2-Me-5HT, and D4476	Mouse	cAMP agonist	Hou et al. (2013)
0558	2-Methyl-5-hydroxytryptamine hydrochloride (2-Me-5HT)	Oct4 with FSK and 2-Me-5HT	Mouse	5-HT3 agonist	Moon et al. (2011)
4551	Purmorphamine	Sox2, Klf4, and C-Myc	Mouse	Sonic hedgehog signaling	Moon et al. (2011)