



## Product Information

**Axon ID :** 5006 **Batch :** 1

**Product Name :** Stem Cell CSD inhibitor Set  
Also termed as: Neuronal 3i inhibitor Set

**Content :** Set of 3 inhibitors: CHIR99021, SU5402, and DAPT

\* 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 crew 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 three small molecule inhibitors, GSK3 inhibitor CHIR 99021 (Axon 1386), FGFR inhibitor SU5402 (Axon 1667) and gamma secretase inhibitor DAPT (Axon 1484) (termed as CSD or neuronal 3i). CHIR99021 is the key factor for inducing neuronal differentiation, whereas SU5402 and DAPT further enhance efficiency.

Combination of stem cell CSD (neuronal 3i) inhibitor set with LSB inhibitor set (Axon 5004) forms stem cell 5i inhibitor set (Axon 5007, aka LSB3i or LSB+3i), which was used for rapid and efficient differentiation of human pluripotent stem cells (hPSCs) into nociceptors.

Axon ID / Batch	Component	Set Size (2 mg each)	Set Size (5 mg each)	Batch MW
1386 - B8	CHIR 99021	1 vial x 2 mg	1 vial x 5 mg	465.35
1667 - B2	SU 5402	1 vial x 2 mg	1 vial x 5 mg	296.32
1484 - B1	DAPT	1 vial x 2 mg	1 vial x 5 mg	432.46

**Stock Solution :** Instruction to prepare DMSO stock solution:  
10 mM solution of CHIR 99021 (2 mg in 430 µl; 5 mg in 1075 µl DMSO)  
10 mM solution of SU 5402 (2 mg in 674 µl; 5 mg in 1687 µl DMSO)  
10 mM solution of DAPT (2 mg in 462 µl; 5 mg in 1156 µl DMSO)  
(\*Samples in solutions can be provided upon your request. Please contact us.)

**Storage :** 4 °C or below for samples in powder form; their DMSO stock solutions, once prepared, can be stored at -20 °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 :** S.M. Chambers et al. Combined small-molecule inhibition accelerates developmental timing and converts human pluripotent stem cells into nociceptors. Nature Biotechnol. 2012, 30, 715-720.

**Source Information :** LDN193189 hydrochloride, SB431542, CHIR99021, SU5402 and DAPT from Axon Medchem have been procured by many labs as drug standards for generating reliable and reproducible biological data, evidenced by many recent publications. They are highly pure drugs used in stem cell research. Be right about your drugs!