



## Product Information

<b>Axon ID:</b>	5007	<b>Batch:</b>	1																															
<b>Product Name:</b>	Stem Cell 5i Inhibitor Set Also known as: LSB3i Inhibitor Set																																	
<b>Content:</b>	Set of 5 inhibitors: LDN 193189 hydrochloride, SB 431542, CHIR99021, SU 5402, 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). * Five inhibitors are in powder form (high purity: 99%), ready to be reconstituted freshly to their 10 mM solutions in DMSO (or in pure water for LDN 193189 hydrochloride) respectively.																																	
<b>Description:</b>	A convenient set of five small molecule pathway inhibitors, BMP inhibitor LDN 193189 hydrochloride (Axon 1509), TGF-beta inhibitor SB 431542 (Axon 1661) and GSK3 inhibitor CHIR99021 (Axon 1386), FGFR inhibitor SU 5402 (Axon 1667) and Gamma secretase inhibitor DAPT (Axon 1484) (termed as stem cell 5i or LSB3i or LSB+3i inhibitor set), for neural differentiation of human pluripotent stem cells (hPSCs).  Stem Cell 5i (or LSB3i) inhibitor cocktail protocol, actually a combination of LSB inhibitor set (Axon 5004) and neuronal 3i (CSD) inhibitor set (Axon 5006), was used for rapid and efficient differentiating hPSCs into nociceptors.																																	
	<table><thead><tr><th>Axon ID / Batch</th><th>Component</th><th>Set Size (2 mg each)</th><th>Set Size (5 mg each)</th><th>Batch MW</th></tr></thead><tbody><tr><td>1509 - B8</td><td>LDN 193189 trihydrochloride</td><td>1 vial x 2 mg</td><td>1 vial x 5 mg</td><td>494.72</td></tr><tr><td>1661 - B12</td><td>SB 431542</td><td>1 vial x 2 mg</td><td>1 vial x 5 mg</td><td>402.40</td></tr><tr><td>1386 - B14</td><td>CHIR99021</td><td>1 vial x 2 mg</td><td>1 vial x 5 mg</td><td>469.84</td></tr><tr><td>1667 - B4</td><td>SU 5402</td><td>1 vial x 2 mg</td><td>1 vial x 5 mg</td><td>296.32</td></tr><tr><td>1484 - B3</td><td>DAPT</td><td>1 vial x 2 mg</td><td>1 vial x 5 mg</td><td>432.46</td></tr></tbody></table>	Axon ID / Batch	Component	Set Size (2 mg each)	Set Size (5 mg each)	Batch MW	1509 - B8	LDN 193189 trihydrochloride	1 vial x 2 mg	1 vial x 5 mg	494.72	1661 - B12	SB 431542	1 vial x 2 mg	1 vial x 5 mg	402.40	1386 - B14	CHIR99021	1 vial x 2 mg	1 vial x 5 mg	469.84	1667 - B4	SU 5402	1 vial x 2 mg	1 vial x 5 mg	296.32	1484 - B3	DAPT	1 vial x 2 mg	1 vial x 5 mg	432.46			
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<b>Stock Solution:</b>	Instruction to prepare stock solution in DMSO or H <sub>2</sub> O: 10 mM solution of LDN 193189 trihydrochloride (2 mg in 404.3 µl, 5 mg in 1010.7 µl H <sub>2</sub> O or DMSO); 10 mM solution of SB 431542 (2 mg in 497.0 µl; 5 mg in 1242.5 µl DMSO); 10 mM solution of CHIR99021 (2 mg in 425.7 µl; 5 mg in 1064.2 µl DMSO); 10 mM solution of SU 5402 (2 mg in 674.9 µl, 5 mg in 1687.4 µl DMSO); 10 mM solution of DAPT (2 mg in 462.52 µl; 5 mg in 11561.8 µl DMSO); (*Samples in solutions can be provided upon your request. Please contact us.)																																	
<b>Storage:</b>	4 °C or below for samples in powder form; their DMSO or H <sub>2</sub> O 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!																																	
<b>Shipping:</b>	Powder samples can be shipped at ambient temperature.																																	
<b>Reference:</b>	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.																																	
<b>Source Information:</b>	LDN 193189 hydrochloride, SB 431542, CHIR99021, SU 5402 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!																																	