Product Information

Axon ID: 5010 **Batch:** 1

Product Name: Naïve Stem Cell NHSM Inhibitor Set
Also termed as: Stem Cell 6i inhibitor Set

Content: Set of 6 inhibitors: CHIR99021, PD0325901, BIRB796, SP600125, Gö6983 and Y27632

* 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).
* All 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 six small molecule pathway inhibitors (termed as Naive stem cell 6i or NHSM inhibitors):
- GSK3 inhibitor CHIR99021 (Axon 1386)
- MEK inhibitor PD0325901 (Axon 1408)
- p38 inhibitor BIRB796 (Axon 1358)
- JNK inhibitor SP600125 (Axon 2519)
- PKC inhibitor Gö6983 (Axon 2466)
- ROCK inhibitor Y27632 dihydrochloride (Axon 1683)

These 6 small molecule inhibitors were used in the basic NHSM composition as published in Gafni et al. Nature 2013 and with modifications at Hanna lab, the Weizmann Institute of Science (WIS). Useful tool for isolation, generation, derivatization and stabilization of naive human pluripotent stem cells.

Axon ID	Component	Set Size (2 mg each)	Set Size (5 mg each)	Batch	Batch MW
1386	CHIR99021	1 vial x 2 mg	1 vial x 5 mg	B12	465.35
1408	PD0325901	1 vial x 2 mg	1 vial x 5 mg	B7	486.7
1358	BIRB 796	1 vial x 2 mg	1 vial x 5 mg	B2A	536.67
2519	SP 600125	1 vial x 2 mg	1 vial x 5 mg	B1	220.23
2466	Gö 6983	1 vial x 2 mg	1 vial x 5 mg	B2A	442.51
1683	Y27632 dihydrochloride	1 vial x 2 mg	1 vial x 5 mg	B10	324.76

Stock Solution: Instruction to prepare stock solution in DMSO:
10 mM solution of CHIR99021 (2 mg in 430 µL; 5 mg in 1075 µL DMSO);
10 mM solution of PD0325901 (2 mg in 410.9 µL; 5 mg in 1027.3 µL DMSO);
10 mM solution of BIRB796 (2 mg in 373 µL, 5 mg in 932 µL DMSO);
10 mM solution of SP600125 (2 mg in 908 µL; 5 mg in 2270 µL DMSO);
10 mM solution of Gö6983 (2 mg in 452.0 µL; 5 mg in 1129.9 µL DMSO);
10 mM solution of Y27632 dihydrochloride (2 mg in 599.2 µL; 5 mg in 1498.0 µL DMSO or H2O)
(*Samples in solutions can be provided upon your request. Please contact us.)

Storage: 4 ºC or below for samples in powder form; their DMSO or H2O stock solutions, once prepared, can be stored at -20 ºC and below for 6 months. Our recommedation is to use it freshly within 1 month. Protect from light and air!

Shipping: Powder samples can be shipped at ambient temperature.

Reference: Gafni, O. et al. Derivation of novel human ground state naive pluripotent stem cells. Nature. 2013, Dec 12; 504(7479): 282-286.
Hanna Lab, WIS-NHSM human naive medium formulation & protocols.

Source Information: The featured inhibitors from Axon Medchem have been widely procured as drug standards for generating reliable and reproducible biological data, evidenced by many publications. All 6i are highly pure drugs ideally for using in stem cell research. Be right about your drugs!

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