

PRODUCT: Neuronal Transdifferentiation Modulators Set III

REFERENCES: Ladewig J., Mertens J. *et.al* (2012), Apr 8. *Nature Methods* doi:10.1038/nmeth.1972 [Epub ahead of print]

CATALOG #: K874-4

AMOUNT: 1 set

STORAGE: Store at -20°C. Protect from air, moisture and light. Lyophilized noggin is best-stored desiccated below 0°C. Reconstituted Noggin should be stored at working aliquots at – 20°C. Avoid freeze-thaw cycles as it can result in loss of activity.

SOLUBILITY: SB-431542, LDN193189 and CHIR99021 are soluble in DMSO (20 mg/ml) or Ethanol (2 mg/ml), DMSO (4.5 mg/ml) and DMSO (46.5 mg/ml) respectively.

RECONSTITUTION: Centrifuge the noggin vial prior to opening. Reconstitute in water to a concentration of 0.1 to 1.0 mg/ml. Note: Due to solubility reasons the protein should be kept at low pH. This solution can then be diluted into other aqueous buffers.

DESCRIPTION: A convenient set of four small molecule modulators (see the table below) for enhancing neuronal transdifferentiation.

RELATED PRODUCTS:
 Neuronal Transdifferentiation Cocktail Set I (**Cat. No. K872-3**)
 Neuronal Transdifferentiation Cocktail Set II (**Cat. No. K873-2**)
 Neuronal Transdifferentiation Cocktail Set IV (**Cat. No. K875-3**)
 SB-431542 (**Cat. No. 1674-1**)
 EZSolution™ SB-431542 (**Cat. No. 1872-1**)
 EZSolution™ SB-431542, sterile filtered (**Cat. No. 1992-1**)
 LDN193189 (**Cat. No. 1995-5, 25**)
 CHIR99021 (**Cat. No. 1677-5, 25**)
 EZSolution™ CHIR99021 (**Cat. No. 1748-5**)
 EZSolution™ CHIR99021, sterile filtered (**Cat. No. 1991-1**)
 Noggin, human recombinant (**Cat. No. 4675-20, 100, 1000**)

Product	Cat. No.	Biological Function	Size
SB-431542	1674-1	TGF-β1 receptor ALK5 inhibitor.	1 mg
LDN193189	1995-1	BMP type I receptors ALK2 and ALK3 inhibitor	1 mg
CHIR99021	1677-1	GSK-3β inhibitor	1 mg
Noggin, human recombinant	4675-20	Inhibits TGF-β signal transduction by binding to TGF –β family ligands. BMP4 antagonist.	20 µg

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

USAGE: FOR RESEARCH USE ONLY! Not to be used in humans.