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SB431542 (Qk1103)



Type: Small molecules

Available for purchase: unit size (mg): 5, 10

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Product Information

SB431542 is a potent and selective inhibitor of ALK4, ALK5 and ALK7 receptors which activate the TGF-β/activin/nodal pathway. This pathway is essential for maintaining pluripotency in embryonic (ESC) and induced pluripotent stem cells (iPSC). In cell culture, SB431542 can be used for induced differentiation of ESC and iPSC into mesenchymal lineages, cardiac and neural differentiation.

Qkine SB431542 (Qk1103) is highly pure and validated in iPSC differentiation into ectoderm.

Alternative protein names

SB 431542

Product Size Wording

Sourced from a trusted supplier and order fulfilled by Qkine

Molecular weight

Molecular Weight: 384.4

Protein Uniprot number

Cas No. 301836-41-9

Product Information

- Storage: powder -20°C for 1 year, in solvent -80°C for 1 year
- Solubility EtOH 3.85 mg/ml, DMSO 48.5 mg/ml

Featured applications

- Differentiation of iPSC into ectoderm
- Neural differentiation from pluripotent stem cells
- Differentiation of induced pluripotent stem cells to astrocytes
- Differentiation of midbrain dopaminergic neurons

Further quality assays

- >99% purity
- HPLC/HNMR: Consistent with structure

Scientific Information

Bioactivity

Preparation of SB431542 stock solution in DMSO/EtOH

	1 mg	5 mg	10 mg
1 mM	2.60 ml	13.01 ml	26.02 ml
5 mM	0.52 ml	2.60 ml	5.20 ml
10 mM	0.26 ml	1.30 ml	2.60 ml

Original product page: https://qkine.com/product/sb431542-qk1103/

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