

SB-431542, GMP Grade

Cat. No. SB-431542-11 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SB-431542 (GMP) is SB-431542 produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture.
Description	SB-431542 is a TGF- β receptor kinase inhibitor (TRKI) in SMAD signaling.
Form	Solid, White to off-white
Target	TGF- β Receptor
In Vitro	SB-431542 (GMP) (10 μ M; 10 days) induces human pluripotent stem cells (hPSCs) to post-mitotic cortical neurons differentiation. SB-431542 (GMP) (10 μ M) facilitates directed differentiation into midbrain dopamine neurons (mDA). SB-431542 (GMP) (3.8 μ M) promotes differentiation of hPSCs to multipotent hematopoietic progenitors that arise from SOX17+ hemogenic endothelium in vitro. RT-PCR Cell Line: Human pluripotent stem cells (hPSCs) Concentration: 10 μ M Incubation Time: 10 days Result: Showed downregulation of the pluripotency marker OCT4 and induction of neural and neuronal markers PAX6, FOXG1 and DCX, as well as markers of early born cortical neurons, including TBR1 (preplate, subplate and layer VI) and REELIN, in LSB+X/P/S/D conditions.
IC50 & Target	ALK4: 1 μ M (IC50) ALK5: 0.75 μ M (IC50) ALK7: 2 μ M (IC50)
CAS	301836-41-9

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Formula C₂₂H₁₆N₄O₃

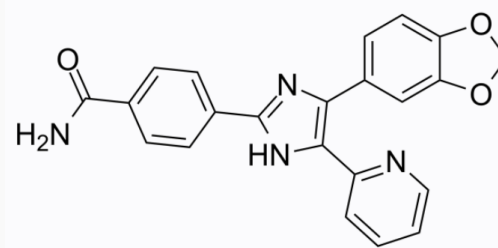
Molecular Mass 384.39

GENE INFORMATION

Pathway TGF-beta/Smad

Synonyms SB-431542

Chemical Structure



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