

IWP-2, GMP Grade

Cat. No. IWP-2-08 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IWP-2 (GMP) is IWP-2 produced by using GMP guidelines. GMP small molecules work appropriately as an auxiliary reagent for cell therapy manufacture.
Description	IWP-2 is an inhibitor of Wnt processing and secretion with an IC ₅₀ of 27 nM. IWP-2 targets the membrane-bound O-acyltransferase porcupine (Porcn) and blocks Wnt ligand palmitoylation.
Form	Solid, White to off-white
Target	Wnt
In Vitro	IWP-2 (GMP) (2 µM, in the first 4 days of Stage IV induction medium) reprograms human somatic cells to pluripotent stem cells. IWP-2 (GMP) (5 µM, day 3 to 5) induces cardiac differentiation of hiPSCs. IWP-2 (GMP) (5 µM, day 1 to 3) increasing the expression of cardiac progenitors and cardiac genes (MYL2, TNNT2, and TNNT2) in hiPSCs. IWP-2 (GMP) (5 µM, day 5-7) together with PIP-S2 induces cardiac mesoderm differentiates into functional cardiomyocytes. IWP-2 (GMP) (5 µM, treated at day 3) induces cardiomyocyte differentiation when applied following a pretreatment with Laduviglusib (GMP). RT-PCR Cell Line: hiPSCs Concentration: 5 µM Incubation Time: day 1 to 3 Result: Reduced the expression of anti-cardiac mesoderm genes, and increased the expression of cardiac progenitors and cardiac genes (MYL2, TNNT2, and TNNT2)
Solubility Data	DMSO: 2 mg/mL (4.29 mM; Need ultrasonic and warming)

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IC50 & Target	IC50: 27 nM (Wnt)
CAS	686770-61-6
Formula	C22H18N4O2S3
Molecular Mass	466.6
Storage	4 centigrade, sealed storage, away from moisture

GENE INFORMATION

Pathway	Stem Cell/Wnt
Synonyms	IWP-2

Chemical Structure

