KY02111

5 mg

Small Molecules

WNT pathway inhibitor

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Catalog # 72582

Product Description

KY02111 promotes the differentiation of pluripotent stem cells (PSCs) to cardiomyocytes by inhibiting canonical WNT signaling in a manner distinct from that of other WNT inhibitors (Minami et al.).

Molecular Name: KY02111

Alternative Names: Not applicable CAS Number: 1118807-13-8 Chemical Formula: $C_{18}H_{17}CIN_2O_3S$ Molecular Weight: 376.9 g/mol Purity: $\geq 95\%$

Chemical Name: N-(6-chloro-1,3-benzothiazol-2-yl)-3-(3,4-dimethoxyphenyl)propanamide

Structure:

Properties

Physical Appearance: A crystalline solid

Storage: Product stable at -20°C as supplied. Protect from prolonged exposure to light. For product expiry date, please

contact techsupport@stemcell.com.

Solubility: \cdot DMSO \leq 25 mM

For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 265 μL of fresh DMSO.

Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application.

Compound has low solubility in aqueous media. For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.

Small Molecules KY02111



Published Applications

DIFFERENTIATION

· Promotes cardiomyocyte differentiation of human and mouse PSCs in combination with BIO, CHIR99021, and XAV939 (Minami et al.).

References

Minami I et al. (2012) A small molecule that promotes cardiac differentiation of human pluripotent stem cells under defined, cytokine- and xeno-free conditions. Cell Rep 2(5): 1448–60.

Related Small Molecules

For a complete list of small molecules available from STEMCELL Technologies, please visit our website at www.stemcell.com/smallmolecules or contact us at techsupport@stemcell.com.

This product is hazardous. Please refer to the Safety Data Sheet (SDS).

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