Small Molecules

KY02111

WNT pathway inhibitor

Catalog # 72582

5 mg

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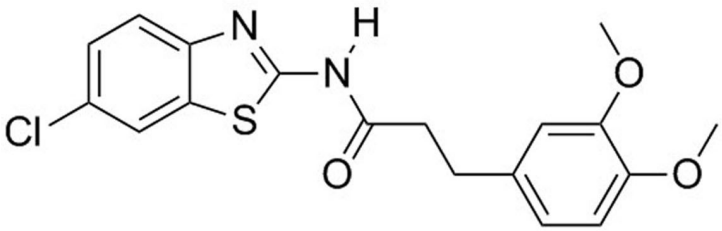
Product Description

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:	$C_{18}H_{17}ClN_2O_3S$
Molecular Weight:	376.9 g/mol
Purity:	≥ 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. Stable as supplied for 12 months from date of receipt.
Solubility:	· DMSO ≤ 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.

Published Applications

DIFFERENTIATION
· Promotes cardiomyocyte differentiation of human and mouse PSCs in combination with BIO (Catalog #72032), CHIR99021 (Catalog #72052), and XAV939 (Catalog #72672) (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, visit www.stemcell.com/smallmolecules or contact us at techsupport@stemcell.com.

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