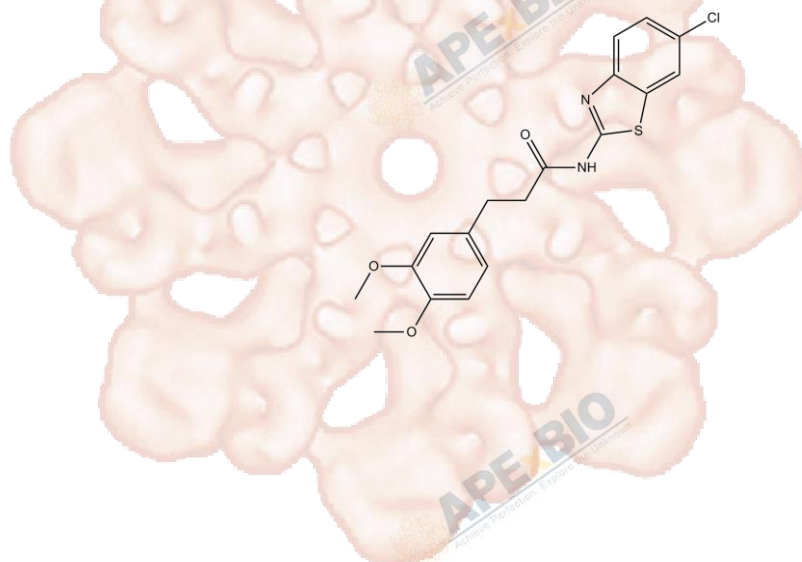


Product Data Sheet

KY 02111

Cat. No.:	A8213
CAS No.:	1118807-13-8
Formula:	C18H17ClN2O3S
M.Wt:	376.86
Synonyms:	
Target:	Stem Cell
Pathway:	Wnt/ β -catenin
Storage:	Store at 4°C



Solvent & Solubility

insoluble in H₂O; ≥ 18.85 mg/mL in DMSO; ≥ 7.06 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.6535 mL	13.2675 mL	26.5351 mL
	5 mM	0.5307 mL	2.6535 mL	5.3070 mL
	10 mM	0.2654 mL	1.3268 mL	2.6535 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

WNT signaling inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	IMR90-1 hiPSCs
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions:	10 μ M; 12 or 24 hrs

	Applications:	In IMR90-1 hiPSCs, KY 02111 (10 μ M) downregulated the expression of 72.7% target genes of canonical WNT signaling.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

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

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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