

Product Name: AR-C155858 Revision Date: 01/10/2021

Product Data Sheet

AR-C155858

Cat. No.: A3185

CAS No.: 496791-37-8
Formula: C21H27N5O5S

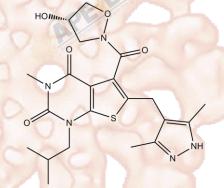
M.Wt: 461.53

Synonyms: AR C155858

Target: Membrane Transporter/Ion Channel

Pathway: MCT

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; \geq 52.5 mg/mL in DMSO; \geq 57.8 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1667 mL	10.8335 mL	21.6671 mL
	5 mM	0.4333 mL	2.1667 mL	4.3334 mL
	10 mM	0.2167 mL	1.0834 mL	2.1667 mL

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

Biological Activity

	Cell Line:	Ras-transformed fibroblast CCL39 cells
	Cell Viability Assay	
IC ₅₀ & Target		
Shortsummary	MCT1 and MCT2 inhibito	or

In Vitro

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Cell Line:	Ras-transformed fibroblast CCL39 cells	
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:	100 nM	

	Applications:	In Ras-transformed fibroblast CCL39 cells, AR-C155858 potently suppressed
		the uptake of lactic acid by inhibiting MCT1 and MCT2, which significantly
		decreased glycolysis.
In Vivo	Animal models:	Nude mice implanted with Ras-transformed CCL39 fibroblasts
	Dosage form:	30 mg/kg; s.c.; b.i.d., for 6 days
	Applications:	In nude mice implanted with Ras-transformed CCL39 fibroblasts that only expressed MCT1/2, AR-C155858 increased intracellular lactate pool, reduced glycolysis and growth in hypoxia, as well as inhibited tumor growth.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

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Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Le Floch R, Chiche J, Marchiq I, Naiken T, Ilc K, Murray CM, Critchlow SE, Roux D, Simon MP, Pouysségur J. CD147 subunit of lactate/H+ symporters MCT1 and hypoxia-inducible MCT4 is critical for energetics and growth of glycolytic tumors. Proc Natl Acad Sci U S A. 2011 Oct 4;108(40):16663-8.

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 APExBIO 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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