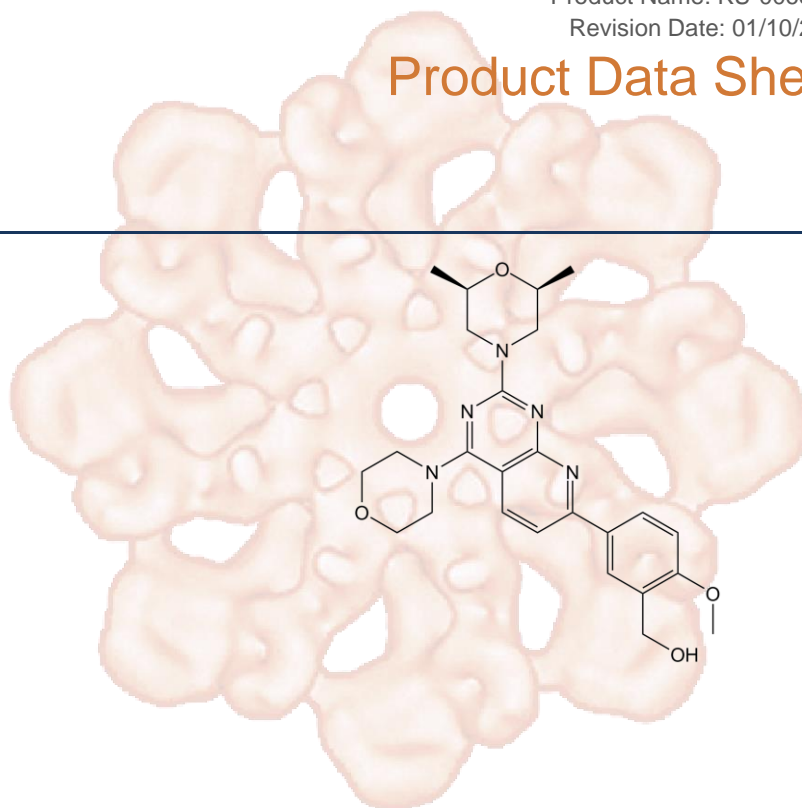


KU-0063794

Cat. No.:	A5078
CAS No.:	938440-64-3
Formula:	C ₂₅ H ₃₁ N ₅ O ₄
M.Wt:	465.54
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	mTOR
Storage:	Store at -20°C



Solvent & Solubility

≥ 11.65mg/mL in DMSO, insoluble in EtOH, insoluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.1480 mL	10.7402 mL	21.4804 mL
	5 mM		0.4296 mL	2.1480 mL	4.2961 mL
	10 mM		0.2148 mL	1.0740 mL	2.1480 mL

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

Biological Activity

Shortsummary

MTORC1 and mTORC2 inhibitor

IC₅₀ & Target

~10 nM (mTORC1), ~10 nM (mTORC2)

In Vitro

Cell Viability Assay

Cell Line:	Wild-type and mLST8-deficient MEFs
Preparation method:	The solubility of this compound in DMSO is limited. 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:	~ 3 μM; 24, 48 and 72 hrs
Applications:	In wild-type and mLST8-deficient MEFs, KU-0063794 inhibited cell growth.

In Vivo

Animal experiment

Applications:

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Garcia-Martinez J, Moran J, Clarke R, et al. Ku-0063794 is a specific inhibitor of the mammalian target of rapamycin (mTOR)[J]. Biochem. J, 2009, 421: 29-42.

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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