

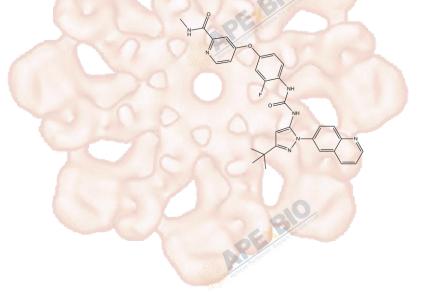
Product Name: DCC-2036 (Rebastinib) Revision Date: 01/10/2021

Product Data Sheet

DCC-2036 (Rebastinib)

Cat. No.:	B1404	
CAS No.:	1020172-07-9	
Formula:	C30H28FN7O3	
M.Wt:	553.59	
Synonyms:		
Target:	TGF- β / Smad Signaling	
Pathway:	Bcr-Abl	
Storage:	Store at -20°C	
	210	

Solvent & Solubility



 \geqslant 27.7 mg/mL in DMSO

	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	SIOCK Solutions	1 mM	1.8064 mL	9.0320 mL	18.0639 mL
	810	5 mM	0.3613 mL	1.8064 mL	3.6128 mL
	PEtroven	10 mM	0.1806 mL	0.9032 mL	1.8064 mL

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

Biological Activity

Shortsummary Bcr-Abl inhibitor

IC₅₀ & Target

0.75 nM (u-Abl1 (native)), 1.4 nM (Abl1 (H396P)), 2 nM (p-Abl1 (native)), 2 nM (FLT3), 4 nM (p-Abl1 (T315I))

Cell Viability Assay	and the second
Cell Line:	Ba/F3 cells expressing native or mutant BCRABL1
Preparation method:	The solubility of this compound in DMSO is > 27.7 mg/mL. 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:	2 ~ 150 nM
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	Applications:	In Ba/F3 cells expressing native BCR-ABL1native, DCC-2036 effectively		
		inhibited cell proliferation with an IC50 value of 5.4 nM. DCC-2036 also potently		
		inhibited Ba/F3 cells expressing BCR-ABL1 mutants that were resistant to		
		Imatinib, Dasatinib (T315A) and Nilotinib (L248R, Y253H, E255V and F359C).		
		In addition, DCC-2036 was effective on the gatekeeper mutant		
	010	BCR-ABL1T315I (IC50 = 13 nM), on which all three FDA-approved TKIs were		
	CEL STOR	ineffective.		
	Animal experiment	Sec. Contraction		
	Animal models:	Mice bearing Ba/F3-BCR-ABL1T315I leukemia cells		
Dosage form:		100 mg/kg; p.o.		
	Applications:	In mice bearing Ba/F3-BCR-ABL1T315I leukemia cells, a single oral dose of		
		DCC-2036 at 100 mg/kg resulted in a plasma concentration over 12 μM for up		
In Vivo		to 24 hrs, and effectively inhibited BCR-ABL1 signaling for up to 8 hrs. Treating		
		mice bearing Ba/F3-BCR-ABL1 T315I leukemia cells with DCC-2036 at the		
	810	dose of 100 mg/kg once daily significantly prolonged their survival.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	Contraction of the second	slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.



[1]. Chan W W, Wise S C, Kaufman M D, et al. Conformational control inhibition of the BCR-ABL1 tyrosine kinase, including the gatekeeper T315I mutant, by the switch-control inhibitor DCC-2036. Cancer cell, 2011, 19(4): 556-568.

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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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