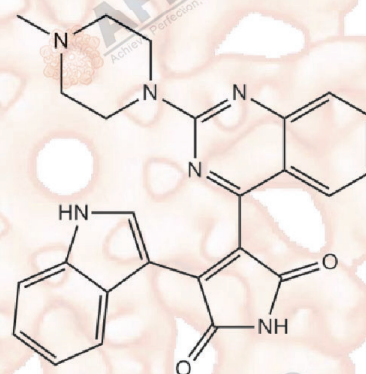


Product Data Sheet

Sotrastaurin (AEB071)

Cat. No.:	A8525
CAS No.:	425637-18-9
Formula:	C ₂₅ H ₂₂ N ₆ O ₂
M.Wt:	438.48
Synonyms:	AEB 071;AEB-071
Target:	TGF- β / Smad Signaling
Pathway:	PKC
Storage:	Store at -20°C



Solvent & Solubility

≥21.9 mg/mL in DMSO; insoluble in H₂O; ≥2.55 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.2806 mL	11.4030 mL	22.8061 mL
	5 mM	0.4561 mL	2.2806 mL	4.5612 mL
	10 mM	0.2281 mL	1.1403 mL	2.2806 mL

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

Biological Activity

Shortsummary

PKC inhibitor

IC₅₀ & Target

0.22 nM (PKC θ)

In Vitro

Cell Viability Assay

Cell Line: GNAQ/GNA11-mutant Uveal Melanoma cell lines

Preparation method:

The solubility of this compound in DMSO is >21.9 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:

125, 250, 500, 1000 nM; 5 days

	Applications:	AEB071 inhibited cell proliferation in GNAQ/GNA11-mutant Uveal Melanoma cell lines with inhibition of the PKC/ERK1/2 pathway.
In Vivo	Animal experiment	
	Animal models:	nu/nu SCID female mice bearing GNAQ mutant xenograft
	Dosage form:	Oral administration, 80mg/kg/d, three times daily
	Applications:	AEB071/BYL719 combination inhibited in vivo tumor growth in a GNAQ mutant xenograft model.
	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.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Evenou J P, Wagner J, Zenke G, et al. The potent protein kinase C-selective inhibitor AEB071 (sotrastaurin) represents a new class of immunosuppressive agents affecting early T-cell activation[J]. Journal of Pharmacology and Experimental Therapeutics, 2009, 330(3): 792-801.
- [2]. Musi E, Ambrosini G, De Stanchina E, et al. The phosphoinositide 3-kinase α selective inhibitor BYL719 enhances the effect of the protein kinase C inhibitor AEB071 in GNAQ/GNA11-mutant uveal melanoma cells[J]. Molecular cancer therapeutics, 2014, 13(5): 1044-1053.

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. Short-term 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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