

Product Name: Enzastaurin (LY317615) Revision Date: 01/10/2021



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Enzastaurin (LY317615)

Cat. No.:	A1670
CAS No.:	170364-57-5
Formula:	C32H29N5O2
M.Wt:	515.61
Synonyms:	
Target:	$TGF\text{-}\beta$ / Smad Signaling
Pathway:	PKC
Storage:	Store at -20°C
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Solvent & Solubility

	insoluble in EtOH; ins	insoluble in EtOH; insoluble in H2O; \geq 8.59 mg/mL in DMSO			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	SICK Solutions	1 mM	1.9395 mL	9.6973 mL	19.3945 mL
	310	5 mM	0.3879 mL	1.9395 mL	3.8789 mL
	PENN	10 mM	0.1939 mL	0.9697 mL	1.9395 mL

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

Biological Activity

Shortsummary	PK
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PKC beta inhibitor, potent and selective

IC₅₀ & Target

In Vitro

et 6 nM (PKCβ), 39 nM (PKCα), 83 nM (PKCγ), 110 nM (PKCε)

Cell Viability Assay	
Cell Line:	HCT116 colon cancer and U87MG glioblastoma 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:	4 μ M, 48 hrs for both HCT116 colon cancer and U87MG glioblastoma cells; 03

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		$\sim 4~\mu M$ for HCT116 colon cancer cells
	Applications:	In both HCT116 colon cancer and U87MG glioblastoma cells, Enzastaurin
		induced cell apoptosis. HCT116 colon cancer cells treated with Enzastaurin
		showed a dose-dependent increase in apoptosis.
	Animal experiment	
In Vivo	Animal models: Athymic nude mice bearing HCT116 colon cancer xenografts	
	Dosage form:	75 mg/kg; p.o.; b.i.d., for 21 days
	Applications:	In mice bearing HCT116 colon cancer xenografts, Enzastaurin significantly suppressed the growth of HCT116 colon carcinoma. Enzastaurin time-dependently inhibited GSK3 β Ser9 phosphorylation in HCT116 colon cancer xenograft tissues.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility slightly differ with the theoretical value. This is caused by an experime system error and it is normal.
	EBIO	PERSIM

Product Citations

1. Huichalaf CH, Al-Ramahi I, Pet al."Cross-species genetic screens to identify kinase targets for APP reduction inAlzheimer's disease." Hum Mol Genet. 2019 Feb 12.PMID:30753434

2. Piano I, Baba K, et al. "Heteromeric MT(1)/MT(2) melatonin receptors modulate the scotopic electroretinogram via PKCζ in mice." Exp Eye Res. 2018 Jul 27;177:50-54.PMID:30059666

See more customer validations on www.apexbt.com.

References

[1]. Graff J R, McNulty A M, Hanna K R, et al. The protein kinase Cβ–selective inhibitor, enzastaurin (LY317615.HCl), suppresses signaling through the AKT pathway, induces apoptosis, and suppresses growth of human colon cancer and glioblastoma xenografts. Cancer Research, 2005, 65(16): 7462-7469.

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.













