



CAL-130

Catalog No: tcsc1219

且	Available Sizes
Size	: 5mg
Size	: 10mg
Size	: 50mg
	Specifications
CAS 1431	No: 697-74-3
	nula: 22 ^N 8 ^O
	way: Akt/mTOR
Targ PI3K	
Puri t > 98%	ty / Grade: %
	bility: M in DMSO

Product Description

Observed Molecular Weight:

CAL-130 is a **PI3K6** and **PI3Ky** inhibitor with IC_{50} s of 1.3 and 6.1 nM, respectively.

IC50 & Target: IC50: 1.3 nM (P110 δ), 6.1 nM (P110 γ), 56 nM (p110 β), 115 (p110 α) [1]

In Vitro:

426.47





CAL-130 preferentially inhibits the function of both p110 γ and p110 δ catalytic domains. IC₅₀ values of CAL-130 are 1.3 and 6.1 nM for p110 δ and p110 γ , respectively, as compared to 115 and 56 nM for p110 α and p110 β . CAL-130 does not inhibit additional intracellular signaling pathways (i.e., p38 MAPK or insulin receptor tyrosine kinase) that are critical for general cell function and survival^[1].

In Vivo: The clinical significance of interfering with the combined activities of PI3Kγ and PI3Kδ is determined by administering CAL-130 to $Lck/Pten^{fl/fl}$ mice with established T cell acute lymphoblastic leukemia (T-ALL). Candidate animals for survival studies are ill appearing, have a white blood cell (WBC) count above 45,000 μL⁻¹, evidence of blasts on peripheral smear, and a majority of circulation cells (>75%) staining double positive for Thy1.2 and Ki-67. Mice receive an oral dose (10 mg/kg) of CAL-130 every 8 hr for a period of 7 days and are then followed until moribund. Despite the limited duration of therapy, CAL-130 is highly effective in extending the median survival for treated animals to 45 days as compared 7.5 days for the control group^[1].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!