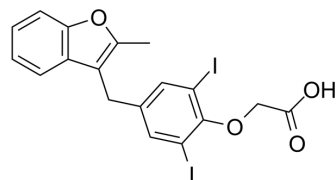


KB130015

Cat. No.:	HY-120026		
CAS No.:	147030-48-6		
Molecular Formula:	C ₁₈ H ₁₄ I ₂ O ₄		
Molecular Weight:	548.11		
Target:	Thyroid Hormone Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (182.45 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.8245 mL	9.1223 mL	18.2445 mL
				5 mM	0.3649 mL	1.8245 mL	3.6489 mL
10 mM				0.1824 mL	0.9122 mL	1.8245 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.56 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.56 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	KB130015 (KB015) is an orally active and potent ThRα and ThRβ (Thyroid Hormone Receptor) inhibitor, with IC ₅₀ values of 4.5 and 5.1 μM, respectively. KB130015 has antiarrhythmic properties. KB130015 markedly slows the kinetics of inactivation of Na ⁺ channels. KB130015 opens large-conductance Ca ²⁺ -activated K ⁺ channels and relaxes vascular smooth muscle ^{[1][2][3]} .
IC ₅₀ & Target	IC ₅₀ : 4.5 μM (ThRα), 5.1 μM (ThRβ) ^[1]

REFERENCES

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- [1]. Carlsson B, et al. Synthesis and preliminary characterization of a novel antiarrhythmic compound (KB130015) with an improved toxicity profile compared with amiodarone. *J Med Chem.* 2002 Jan 31;45(3):623-30.
- [2]. Mubagwa K, Macianskiene R, Viappiani S, Gendviliene V, Carlsson B, Brandts B. KB130015, a new amiodarone derivative with multiple effects on cardiac ion channels. *Cardiovasc Drug Rev.* 2003 Fall;21(3):216-35.
- [3]. Gessner G, et al. The amiodarone derivative 2-methyl-3-(3,5-diiodo-4-carboxymethoxybenzyl)benzofuran (KB130015) opens large-conductance Ca²⁺-activated K⁺ channels and relaxes vascular smooth muscle. *Eur J Pharmacol.* 2007 Jan 26;555(2-3):185-93.
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Caution: Product has not been fully validated for medical applications. For research use only.

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