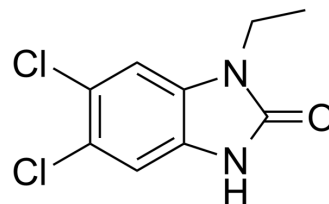


DCEBIO

Cat. No.:	HY-102052		
CAS No.:	60563-36-2		
Molecular Formula:	C ₉ H ₈ Cl ₂ N ₂ O		
Molecular Weight:	231.08		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
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 : 50 mg/mL (216.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3275 mL	21.6375 mL	43.2751 mL
		5 mM	0.8655 mL	4.3275 mL	8.6550 mL
10 mM		0.4328 mL	2.1638 mL	4.3275 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 (10.82 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.82 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DCEBIO, a derivative of 1-EBIO, is an extremely potent activator of Cl ⁻ secretion in T84 colonic cells ^[1] . DCEBIO stimulates Cl ⁻ secretion via the activation of hIK1 K ⁺ channels and the activation of an apical membrane Cl ⁻ conductance ^[2] .
IC₅₀ & Target	Cl ⁻ secretion ^[1]

REFERENCES

[1]. Hamilton KL, et al. DCEBIO stimulates Cl⁻ secretion in the mouse jejunum. Am J Physiol Cell Physiol. 2006 Jan;290(1):C152-64.

[2]. Singh S, et al. Benzimidazolone activators of chloride secretion: potential therapeutics for cystic fibrosis and chronic obstructive pulmonary disease. J Pharmacol Exp Ther. 2001 Feb;296(2):600-11.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA