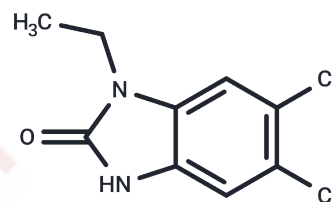


## DCEBIO

## Chemical Properties

CAS No. :	60563-36-2
Formula:	C <sub>9</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O
Molecular Weight:	231.08
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DCEBIO stimulates the secretion of Cl <sup>-</sup> through the activation of the hIK1 K <sup>+</sup> channel and the activation of the apical Cl <sup>-</sup> conductance. DCEBIO is a derivative of 1-EBIO and a very strong activator of Cl <sup>-</sup> secretion by T84 colon cells.
Targets(IC50)	Potassium Channel

## Solubility Information

Solubility	DMSO: 50 mg/mL (216.38 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.66 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3275 mL	21.6375 mL	43.2751 mL
5 mM	0.8655 mL	4.3275 mL	8.655 mL
10 mM	0.4328 mL	2.1638 mL	4.3275 mL
50 mM	0.0866 mL	0.4328 mL	0.8655 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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.

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