



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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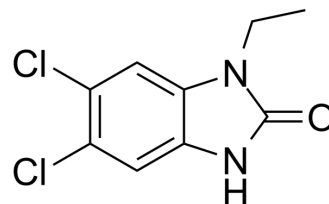
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DCEBIO

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)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>4.3275 mL</td> <td>21.6375 mL</td> <td>43.2751 mL</td> </tr> <tr> <td>5 mM</td> <td>0.8655 mL</td> <td>4.3275 mL</td> <td>8.6550 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4328 mL</td> <td>2.1638 mL</td> <td>4.3275 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			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
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> 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 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.

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