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## Product Data Sheet

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Product Name: Dovramilast

Cat. No.: GC67967

### Chemical Properties

Cas. No. 340019-69-4

Formula  $C_{24}H_{28}N_2O_6S$ 

M.Wt 472.55

Solubility DMSO : 25 mg/mL (52.90 mM; ultrasonic and warming and heat to 60°C)

Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

Dovramilast (CC-11050) is an orally active phosphodiesterase 4 (**PDE4**) inhibitor and can reduce the inflammatory response and improves Isoniazid (INH)-mediated bacillary clearance from the lungs. Dovramilast, as an adjunct, is used for the research of tuberculosis (TB)<sup>[1]</sup>.

Dovramilast (oral gavage, 5, 25, or 50 mg/kg, single) significantly improves antibiotic-mediated bacterial killing and reduces lung pathology<sup>[2]</sup>.

### Pharmacokinetic Parameters of Dovramilast in B6D2F1 mice<sup>[2]</sup>.

Sampling time(h)	Concentration(ng/ml)	
	CC-11050 only	CC-11050+INH
1	1,331.6±136.97	905.35±594.23
2	1,409.47±140.85	1,309.39±214.08
5	948.85±128.7	1,609.18±167.2

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

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8	820.6±265.98	1,271.73±249.18
24	1.27±1.1	4.96±1.85
T <sub>max</sub> (h)	2.0	5.0
C <sub>max</sub> (ng/ml)	1,410	1,610
AUC <sub>last</sub> (ng × h/ml)	10,200	13,900

Animal Model: B6D2F1 mice<sup>[2]</sup>

Dosage: 5, 25, or 50 mg/kg

Administration: oral, 5, 25, or 50 mg/kg, single

Result: Reduced PDE4 expression in mtb-infected mouse lungs.

Animal Model: B6D2F1 mice<sup>[2]</sup>

Dosage: 5, 25, or 50 mg/kg

Administration: oral gavage, 5, 25, or 50 mg/kg, single

Result: Improved antibiotic-mediated bacterial killing and reduced lung pathology.

[1]. International Nonproprietary Names for Pharmaceutical Substances (INN). WHO Drug Information, Vol. 36, No. 2, 2022.

[2]. Selvakumar Subbian, et al. Pharmacologic Inhibition of Host Phosphodiesterase-4 Improves Isoniazid-Mediated Clearance of Mycobacterium tuberculosis. Front Immunol. 2016 Jun 17;7:238.

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