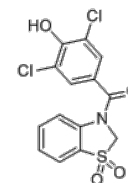


Product Name : Dotinurad
Cat. No. : PC-60041
CAS No. : 1285572-51-1
Molecular Formula : C₁₄H₉Cl₂NO₄S
Molecular Weight : 358.189
Target : URAT1
Solubility : 10 mM in DMSO



Biological Activity

Dotinurad is a potent and selective urate transporter 1 (**URAT1**) inhibitor with IC₅₀ of 37.2 nM.

Dotinurad weakly inhibited ATP-binding cassette subfamily G member 2 (ABCG2), organic anion transporter 1 (OAT1), and OAT3, with IC₅₀ values of 4.16, 4.08, and 1.32 μM, respectively, indicating higher selectivity for URAT1.

Dotinurad (1-30 mg/kg) decreased plasma urate levels and increased fractional excretion of urate (FEUA) in a dose-dependent manner in Cebus monkeys.

Dotinurad is a potent and selective urate reabsorption inhibitor is characterized by increased efficacy with decreasing plasma urate levels.

References

1. Tetsuya Taniguchi, et al. *J Pharmacol Exp Ther.* 2019 Oct;371(1):162-170.
2. Hosoya T, et al. *Clin Exp Nephrol.* 2020 Mar;24(Suppl 1):53-61.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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