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## Product Data Sheet

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Product Name: Ro18-5362

Cat. No.: GC30746

### Chemical Properties

Cas. No. 101387-97-7

SMILES O=C1C(C)(C)C2=C(C=C3NC(SCC4=NC=CC(OC)=C4C)=NC3=C2)C1(C)CFormula  $C_{22}H_{25}N_3O_2S$  M.Wt 395.52

Solubility Soluble in DMSO Storage Store at -20°C

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

Ro18-5362 is the less active prodrug of Ro 18-5364. Even at concentrations as high as 0.1 mM Ro 18-5362 fails to affect significantly (H<sup>+</sup>+K<sup>+</sup>)-ATPase activity and associated proton translocation.

Marked differences are seen between Ro 18-5364 (sulfoxide) and Ro18-5362 (sulfide) with regard to inhibitory activity. Even at concentrations as high as 0.1 mM Ro18-5362 fails to affect significantly (H<sup>+</sup>+K<sup>+</sup>)-ATPase activity and associated proton translocation[1]. The sulfoxide Ro 18-5364, a potential metabolite of the IND Ro18-5362, is a powerful inhibitor of gastric mucosal (H<sup>+</sup>+K<sup>+</sup>)-ATPase, decreasing enzymatic activity with an apparent K<sub>i</sub> of 0.1 μM[2].

[1]. Sigrist-Nelson K, et al. Ro 18-5364, a potent new inhibitor of the gastric (H<sup>+</sup> + K<sup>+</sup>)-ATPase. Eur J Biochem. 1987 Jul 15;166(2):453-9. [2]. Sigrist-Nelson K, et al. Gastric (H<sup>+</sup> + K<sup>+</sup>)-ATPase: modulation of the inhibitory properties of the novel potent antisecretagogue Ro 18-5364 by sulfhydryl reagents and nucleotides. FEBS Lett. 1986 Mar 3;197(1-2):187-91.

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

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