

1-Cyclohexyl-3-(1,3-thiazole-2-yl)thiourea

PRODUCT DATA SHEET

issue date 01/06/2020

Product Name: 1-Cyclohexyl-3-(1,3-thiazole-2-yl)thiourea

Product Number: C215

Form: Powder

Description: 1-Cyclohexyl-3-(1,3-thiazole-2-yl)thiourea is a thiourea derivative. The 1,3-thiazoles are an important group of compounds due to their wide range of applications in biopharma. The thioureas have been described as the most useful class of agents, with a large number of activities including anti-viral properties. The compound is active against HIV-1 and Coxsackievirus B5 (CVB-5) virus.

Microbiology Applications Antibacterial and antiviral activities of 22 thiourea derivatives of 1,3-thiazole were evaluated. 1-Cyclohexyl-3-(1,3-thiazole-2-yl)thiourea was the only one showing anti-HIV activity. It also showed activity against Coxsackievirus B5 (CVB-5) virus, with an EC₅₀ of 14 µM. CVB-5 belongs to the *Enterovirus* genus in the *Picornaviridae* family of human pathogens (Stefanska et al, 2015).

References: Stefanska J et al (2015) Antimicrobial and anti-biofilm activity of thiourea derivatives incorporating a 2-aminothiazole scaffold. Chem. Pharm. Bull. 63(3):225-236 PMID 25757494

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/