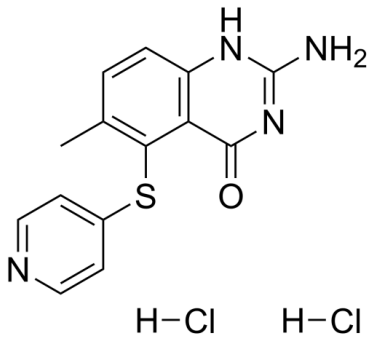
Data Sheet

Product Name:	Nolatrexed dihydrochloride
Cat. No.:	CS-0028903
CAS No.:	152946-68-4
Molecular Formula:	$C_{14}H_{14}Cl_2N_4OS$
Molecular Weight:	357.26
Target:	Thymidylate Synthase
Pathway:	Apoptosis
Solubility:	H2O : 50 mg/mL (139.95 mM; Need ultrasonic); DMSO : 41.67 mg/mL (116.64 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Nolatrexed dihydrochloride (AG 337) is a non-competitive lipophilic inhibitor of **thymidylate synthase**, interacts at the folate cofactor binding site of the enzyme, with a **K_i** of 11 nM for human thymidylate synthase[1]. Nolatrexed dihydrochloride (AG 337) induces cell cycle arrest in S phase of cancer cells. Anti-cancer activity[2]. IC50 & Target: Ki: 11 nM (Human Thymidylate Synthase)[1]

References:

[1]. Webber S, et al. AG337, a novel lipophilic thymidylate synthase inhibitor: in vitro and in vivo preclinical studies. Cancer Chemother Pharmacol. 1996;37(6):509-17.

[2]. McGuire JJ, et al. Characterization of the effect of AG337, a novel lipophilic thymidylate synthase inhibitor, on human head and neck and human leukemia cell lines.

CAIndexNames:

4(1H)-Quinazolinone, 2-amino-6-methyl-5-(4-pyridinylthio)-, hydrochloride (1:2)

SMILES:

[H]Cl.O=C1N=C(N)NC2=C1C(SC3=CC=NC=C3)=C(C)C=C2.[H]Cl

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA