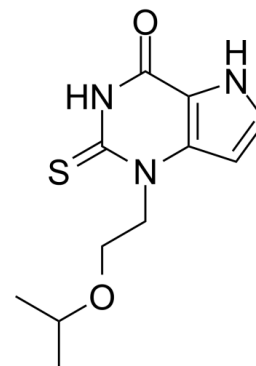


Data Sheet

Product Name:	Verdiperstat
Cat. No.:	CS-0016916
CAS No.:	890655-80-8
Molecular Formula:	C ₁₁ H ₁₅ N ₃ O ₂ S
Molecular Weight:	253.32
Target:	Glutathione Peroxidase
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : 150 mg/mL (592.14 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Verdiperstat (AZD3241) is a selective, irreversible and orally active **myeloperoxidase** inhibitor, with an **IC₅₀** of 630 nM, and can be used in the research of neurodegenerative brain disorders. **IC₅₀ & Target:** IC₅₀: 630 nM (Myeloperoxidase)^[1] **In Vitro:** Verdiperstat (AZD3241) is a myeloperoxidase (MPO) inhibitor, with an **IC₅₀** of 630 nM, and is used in the research of neurodegenerative brain disorders^[1]. Verdiperstat (AZD3241) selectively and irreversibly inhibits myeloperoxidase, and may involves reduction of oxidative stress leading to reduction of sustained neuroinflammation^[2].

References:

[1]. Johnström P, et al. Development of rapid multistep carbon-11 radiosynthesis of the myeloperoxidase inhibitor AZD3241 to assess brain exposure by PET microdosing. Nucl Med Biol. 2015 Jun;42(6):555-60.

[2]. Jucaite A, et al. Effect of the myeloperoxidase inhibitor AZD3241 on microglia: a PET study in Parkinson's disease. Brain. 2015 Sep;138(Pt 9):2687-700.

CAIndexNames:

4H-Pyrrolo[3,2-d]pyrimidin-4-one, 1,2,3,5-tetrahydro-1-[2-(1-methylethoxy)ethyl]-2-thio-

SMILES:

O=C(N1)C(NC=C2)=C2N(CCOC(C)C)C1=S

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA