AZD5904

Cat. No.:	HY-111341				
CAS No.:	618913-30-7				
Molecular Formula:	C ₁₀ H ₁₂ N ₄ O ₂ S				
Molecular Weight:	252.29				
Target:	Glutathione Peroxidase				
Pathway:	Apoptosis; Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	3.9637 mL	19.8185 mL	39.6369 mL	
		5 mM	0.7927 mL	3.9637 mL	7.9274 mL	
	10 mM	0.3964 mL	1.9818 mL	3.9637 mL		
Please re	Please refer to the so	ase refer to the solubility information to select the appropriate solvent.				
In Vivo	Please refer to the so 1. Add each solvent o Solubility: ≥ 2.08 n	ne by one: 10% DMSO >> 90% (20 ng/mL (8.24 mM): Clear solution	oropriate solvent. % SBE-β-CD in saline)			

BIOLOGICAL ACTIV				
Description	AZD5904 is a selective and irreversible inhibitor of human Myeloperoxidase (MPO) with an IC ₅₀ of 140 nM and has similar potency in mouse and rat.			
IC ₅₀ & Target	IC50: 140 nM (human MPO) ^[1]			
In Vitro	AZD5904 is a pselective and irreversible inhibitor of human Myeloperoxidase (MPO) with an IC ₅₀ of 140 nM and has similar potency in mouse and rat. It is 10 to 19-fold selective compare to the closely related lactoperoxidase and thyroid peroxidase; >70-fold to a broad panel of other enzymes, ion channels, and receptors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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CUSTOMER VALIDATION

- Redox Biol. 2023 Sep 27, 102905.
- Leukemia. 2022 Jun 27.
- Cancer Res. 2019 Oct 15;79(20):5191-5203.
- J Immunother Cancer. 2023 Feb;11(2):e005837.
- J Cell Mol Med. 2022 Feb 11.

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REFERENCES

[1]. Myeloperoxidase (MPO) inhibitor.

[2]. Tidén AK, Sjögren T, Svensson M, et al. 2-thioxanthines are mechanism-based inactivators of myeloperoxidase that block oxidative stress during inflammation. J Biol Chem. 2011;286(43):37578-37589.

[3]. Chai W, Aylor K, Liu Z, Gan LM, Michaëlsson E, Barrett E. Inhibiting myeloperoxidase prevents onset and reverses established high-fat diet-induced microvascular insulin resistance. Am J Physiol Endocrinol Metab. 2019;317(6):E1063-E1069.

[4]. Ramachandra CJA, Kp MMJ, Chua J, et al. Inhibiting cardiac myeloperoxidase alleviates the relaxation defect in hypertrophic cardiomyocytes. Cardiovasc Res. 2022;118(2):517-530.

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

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