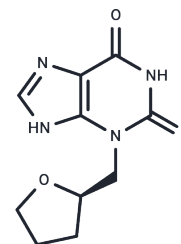


AZD5904

## Chemical Properties

CAS No. : 618913-30-7  
Formula: C<sub>10</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S  
Molecular Weight: 252.29  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	AZD5904 is a potent and irreversible inhibitor of human Myeloperoxidase (MPO, IC <sub>50</sub> : 140 nM) which has similar potency in mouse and rat.
Targets(IC <sub>50</sub> )	Glutathione Peroxidase
In vitro	In isolated human neutrophils, 1 μM AZD5904 inhibits PMA stimulated HOCl by >90%[1]. It is 10 to 19-fold selective compare to the closely related lactoperoxidase and thyroid peroxidase. For a broad panel of other enzymes, ion channels, and receptors, is higher than >70-fold.

## Solubility Information

Solubility	DMSO: 65 mg/mL (257.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (9.91 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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
50 mM	0.0793 mL	0.3964 mL	0.7927 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Myeloperoxidase (MPO) inhibitor.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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