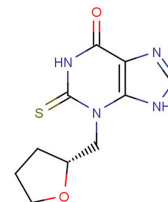


AZD5904

## 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
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	AZD5904 is a potent and irreversible human Myeloperoxidase (MPO) inhibitor (IC <sub>50</sub> of 140 nM and has similar potency in mouse and rat).
Targets(IC <sub>50</sub> )	human MPO: 140 nM
In vitro	AZD5904 is a potent and irreversible inhibitor of human Myeloperoxidase (MPO) with an IC <sub>50</sub> of 140 nM and has similar potency in mouse and rat. 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) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.964 mL	19.818 mL	39.637 mL
5 mM	0.793 mL	3.964 mL	7.927 mL
10 mM	0.396 mL	1.982 mL	3.964 mL
50 mM	0.079 mL	0.396 mL	0.793 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Myeloperoxidase (MPO) inhibitor.

Inhibitors · Natural Compounds · Compound Libraries

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