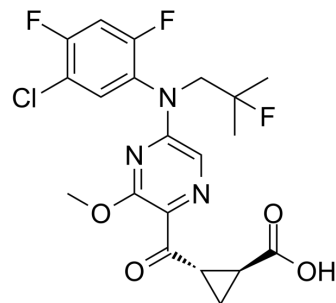


AZD9898

Cat. No.:	HY-126329		
CAS No.:	2042347-69-1		
Molecular Formula:	C ₂₀ H ₁₉ ClF ₃ N ₃ O ₄		
Molecular Weight:	457.83		
Target:	Gutathione S-transferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (546.05 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1842 mL	10.9211 mL	21.8422 mL
	5 mM	0.4368 mL	2.1842 mL	4.3684 mL
	10 mM	0.2184 mL	1.0921 mL	2.1842 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AZD9898 is an orally active leukotriene-C4 synthetase (LTC4S, glutathione S-transferase II) inhibitor, with an IC₅₀ of 0.28 nM. AZD9898 mitigates the GABA binding and hepatic toxicity signal. AZD9898 has the potential to treat asthma^[1].

IC₅₀ & Target

IC₅₀: 0.28 nM (LTC4S)^[1].

In Vivo

AZD9898 with the single dose of 100 mg/kg is well tolerated and no safety concerns are raised^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rat 6M/group ^[1] .
Dosage:	10 and 100 mg/kg (for Toxicology Study).
Administration:	Sing oral dose.

Result:	Showed no signs of testicular toxicity, and only adaptive changes in the liver due to cytochrome P450 induction which were not judged adverse, providing a 200 fold margin between the no adverse effect level and the predicted human exposure at the predicted therapeutic dose.
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REFERENCES

[1]. Munck Af Rosenschöld M, et al. Discovery of the Oral Leukotriene C4 Synthase Inhibitor (1S,2S)-2-((5-[(5-Chloro-2,4-difluorophenyl)(2-fluoro-2-methylpropyl)amino]-3-methoxy-pyrazin-2-yl)carbonyl)cyclopropanecarboxylic Acid (AZD9898) as a New Treatment for

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

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