

AZD 3043

## Chemical Properties

CAS No. : 579494-66-9

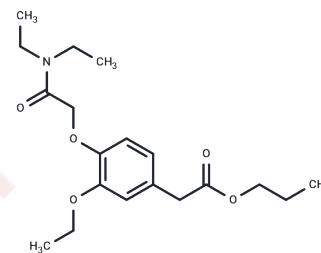
Formula: C<sub>19</sub>H<sub>29</sub>N<sub>5</sub>O<sub>5</sub>

Molecular Weight: 351.44

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AZD 3043 (THR <sub>X</sub> 918661) is a variant modulator of the $\gamma$ -aminobutyric acid type A receptor, a novel sedative-hypnotic and a potential short-acting anesthetic that produces hypnosis and EEG suppression in rats. AZD 3043 potentiates the $\gamma$ -aminobutyric acid type A receptor and inhibits neuronal nicotinic acetylcholine receptors.
Targets(IC <sub>50</sub> )	GABA Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8454 mL	14.2272 mL	28.4544 mL
5 mM	0.5691 mL	2.8454 mL	5.6909 mL
10 mM	0.2845 mL	1.4227 mL	2.8454 mL
50 mM	0.0569 mL	0.2845 mL	0.5691 mL

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

Egan TD, et al. AZD-3043: a novel, metabolically labile sedative-hypnotic agent with rapid and predictable emergence from hypnosis. *Anesthesiology*. 2012 Jun;116(6):1267-77.

Sear JW, et al. David (Propofol Wannabes) Versus Goliath (Propofol): AZD-3043 Goes Up Against the Giant! *Anesth Analg*. 2015 Oct;121(4):849-851.

Wang S, et al. Possible binding sites and interactions of propanidid and AZD3043 within the  $\gamma$ -aminobutyric acid type A receptor (GABAAR). *J Biomol Struct Dyn*. 2018 Nov;36(15):3926-3937.

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