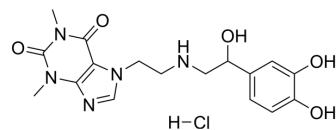


## Theodrenaline hydrochloride

<b>Cat. No.:</b>	HY-U00344A
<b>CAS No.:</b>	2572-61-4
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>22</sub> ClN <sub>5</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	411.84
<b>Target:</b>	Phosphodiesterase (PDE)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (242.81 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4281 mL	12.1406 mL	24.2813 mL
5 mM	0.4856 mL	2.4281 mL	4.8563 mL
10 mM	0.2428 mL	1.2141 mL	2.4281 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Theodrenaline hydrochloride is a cardiac stimulant, also acts as an anti-hypotensive agent together with Cafedrine.

#### In Vitro

Akrinor evokes a positive inotropic effect in human atrial trabeculae via stimulation of  $\beta$ -adrenoceptors (AR)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Akrinor<sup>TM</sup> produces significant potentiation of FSK effects, conceivable by PDE-inhibition, only at very high, clinically irrelevant concentrations of 420 mg/L<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Kloth B, et al. Akirinor<sup>TM</sup>, a Cafedrine/ Theodrenaline Mixture (20:1), Increases Force of Contraction of Human Atrial Myocardium But Does Not Constrict Internal Mammary Artery In Vitro. Front Pharmacol. 2017 May 23;8:272.

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

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