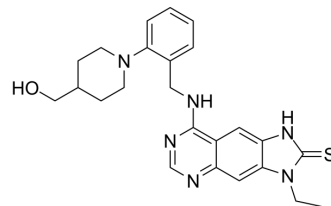


## Thioquinapiperifil

Cat. No.:	HY-119611
CAS No.:	220060-39-9
Molecular Formula:	C <sub>24</sub> H <sub>28</sub> N <sub>6</sub> OS
Molecular Weight:	448.58
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Thioquinapiperifil (KF31327 free base), a potent, selective and non-competitive phosphodiesterase-5 (PDE-5, IC <sub>50</sub> of 0.074 nM) inhibitor, is used for sexual enhancement study <sup>[1][2]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	PDE5	PDE1	PDE2	PDE3
	0.074 nM (IC <sub>50</sub> )	380 nM (IC <sub>50</sub> )	670 nM (IC <sub>50</sub> )	38 nM (IC <sub>50</sub> )
	PDE4			
	800 nM (IC <sub>50</sub> )			
<b>In Vitro</b>	<p>Thioquinapiperifil can be found in dietary supplements<sup>[1]</sup>.</p> <p>Thioquinapiperifil (KF31327 free base) (0.1-10 μM) concentration dependently inhibits platelet aggregation. In the absence of nitroglycerin, higher concentrations 1 and 10 μM of Thioquinapiperifil (KF31327 free base) are required to inhibit platelet aggregation<sup>[2]</sup>.</p> <p>Thioquinapiperifil (KF31327 free base) and shows significant increase in cyclic GMP at 10 μM. After 5 min incubation, the mean cyclic GMP levels of Thioquinapiperifil (KF31327)-treated cells is 0.95±0.17 pmol/10<sup>8</sup> cells<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>			

### REFERENCES

- [1]. Nahoko Uchiyama, et al. Determination of a new type of phosphodiesterase-5 inhibitor, thioquinapiperifil, in a dietary supplement promoted for sexual enhancement. Chem Pharm Bull (Tokyo). 2008 Sep;56(9):1331-4.
- [2]. R Hirose, et al. KF31327, a new potent and selective inhibitor of cyclic nucleotide phosphodiesterase 5. Eur J Pharmacol. 2001 Nov 9;431(1):17-24.

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

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