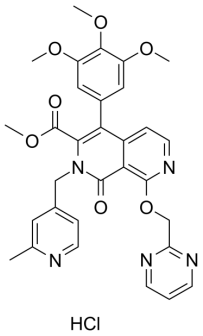
T-0156

Cat. No.:	HY-105349
CAS No.:	324572-93-2
Molecular Formula:	$C_{31}H_{30}ClN_5O_7$
Molecular Weight:	620.05
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	T-0156 is a potent and selective phosphodiesterase type 5 (PDE5) inhibitor. T-0156 specifically inhibits the hydrolysis of cyclic guanosine monophosphate (cGMP) by PDE5 in a competitive manner (IC_{50}=0.23 nM). T-0156 inhibits PDE6 (IC_{50}=56 nM) and has low potencies against PDE1, PDE2, PDE3, and PDE4 (IC_{50}>10 μM). T-0156 enhances the nitric oxide (NO)/cGMP pathway[1].			
IC_{50} & Target	PDE5 0.23 nM (IC_{50})	PDE1 >100 μM (IC_{50})	PDE2 >100 μM (IC_{50})	PDE3 >100 μM (IC_{50})
	PDE4 63 μM (IC_{50})	PDE6 56 nM (IC_{50})		
In Vitro	T-0156 at 10 and 100 nM increases cGMP levels, causing relaxation of the tissue in the isolated rabbit corpus cavernosum[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Hideki Mochida, et al. Enzymological and pharmacological profile of T-0156, a potent and selective phosphodiesterase type 5 inhibitor. Eur J Pharmacol. 2002 Dec 5;456(1-3):91-8.

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