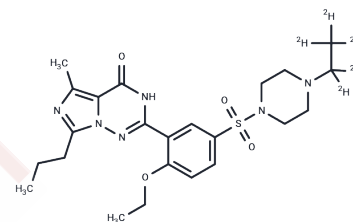


Vardenafil-D5

Chemical Properties

CAS No. :	1189685-70-8
Formula:	C ₂₃ H ₂₇ D ₅ N ₆ O ₄ S
Molecular Weight:	493.63
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Vardenafil-D5 is a deuterated compound of Vardenafil. Vardenafil (T0096) has a CAS number of 224785-90-4. Vardenafil (T0096) (Levitra) is an oral therapy for the treatment of erectile dysfunction. It is a selective inhibitor of cyclic guanosine monophosphate (cGMP)-specific phosphodiesterase type 5 (PDE5). Penile erection is a hemodynamic process initiated by the relaxation of smooth muscle in the corpus cavernosum and its associated arterioles. During sexual stimulation, nitric oxide is released from nerve endings and endothelial cells in the corpus cavernosum. Nitric oxide activates the enzyme guanylate cyclase resulting in increased synthesis of cyclic guanosine monophosphate (cGMP) in the smooth muscle cells of the corpus cavernosum. The cGMP in turn triggers smooth muscle relaxation, allowing increased blood flow into the penis, resulting in erection. The tissue concentration of cGMP is regulated by both the rates of synthesis and degradation via phosphodiesterases (PDEs). The most abundant PDE in the human corpus cavernosum is the cGMP-specific phosphodiesterase type 5 (PDE5); therefore, the inhibition of PDE5 enhances erectile function by increasing the amount of cGMP.
Targets(IC50)	Endogenous Metabolite,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0258 mL	10.129 mL	20.2581 mL
5 mM	0.4052 mL	2.0258 mL	4.0516 mL
10 mM	0.2026 mL	1.0129 mL	2.0258 mL
50 mM	0.0405 mL	0.2026 mL	0.4052 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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