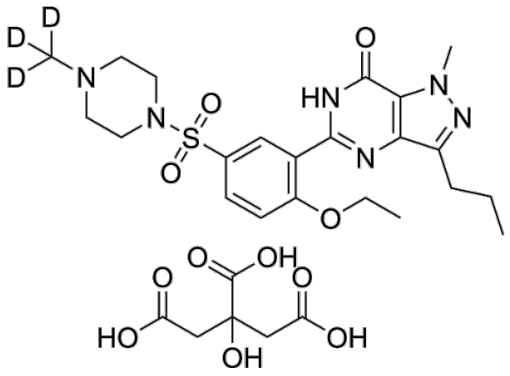
# Product Data Sheet

Product Name: Sildenafil-d 3 citrate
Cat. No.: GC79865

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | | | |
| Formula | $C_{28}H_{35}D_3N_6O_{11}S$ | M.Wt | 669.72 |
| Solubility | | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | | | |



## Background

Sildenafil-d 3 citrate (UK-92480-d 3 citrate) is the deuterium labeled Sildenafil citrate. Sildenafil citrate is a potent phosphodiesterase type 5 ( PDE5 ) inhibitor with $IC_{50}$ of 5.22 nM.

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

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

[1]. Li BB, et al. Sildenafil potentiates the proliferative effect of porcine pulmonary artery smooth muscle cells induced by serotonin in vitro. Chin Med J (Engl). 2011 Sep;124(17):2733-40.
[2]. Wang Z, et al. The Selectivity and Potency of the New PDE5 Inhibitor TPN729MA. J Sex Med. 2013 Nov;10(11):2790-7.
[3]. Moretti R, et al. Sildenafil, a cyclic GMP phosphodiesterase inhibitor, induces microglial modulation after focal ischemia in the neonatal mouse brain. J Neuroinflammation. 2016 Apr 28;13(1):95.
[4]. Korkmaz MF, et al. The Effect of Sildenafil on Recuperation from Sciatic Nerve Injury in Rats. Balkan Med J. 2016 Mar;33(2):204-11.

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