

CTP-499

## Chemical Properties

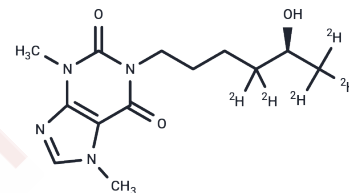
CAS No. : 1268605-91-9

Formula: C<sub>13</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 285.35

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

CTP-499, a selective PDE inhibitor, and the deuterium-containing agent is an HDX analogue and a metabolite of hexantheobromine that slows the progression of type 3 diabetic nephropathy in patients with macroalbuminuria.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5045 mL	17.5223 mL	35.0447 mL
5 mM	0.7009 mL	3.5045 mL	7.0089 mL
10 mM	0.3504 mL	1.7522 mL	3.5045 mL
50 mM	0.0701 mL	0.3504 mL	0.7009 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.

## Reference

Perez-Gomez MV, Sanchez-Niño MD, Sanz AB, Martín-Cleary C, Ruiz-Ortega M, Egido J, Navarro-González JF, Ortiz A, Fernandez-Fernandez B. Horizon 2020 in Diabetic Kidney Disease: The Clinical Trial Pipeline for Add-On Therapies on Top of Renin Angiotensin System Blockade. *J Clin Med*. 2015 Jun 18;4(6):1325-47. doi: 10.3390/jcm4061325. Review. PubMed PMID: 26239562; PubMed Central PMCID: PMC4485003.

Tang X, Bridson G, Ke J, Wu L, Erol H, Graham P, Lin CH, Braman V, Zhao H, Liu JF, Lin ZJ, Cheng C. Quantitative analyses of CTP-499 and five major metabolites by core-structure analysis. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2014 Jul 15;963:1-9. doi: 10.1016/j.jchromb.2014.05.043. Epub 2014 May 28. PubMed PMID: 24927417.

Braman V, Graham P, Cheng C, Turnquist D, Harnett M, Sabounjian L, Shipley J. A Randomized Phase I Evaluation of CTP-499, a Novel Deuterium-Containing Drug Candidate for Diabetic Nephropathy. *Clin Pharmacol Drug Dev*. 2013 Jan;2(1):53-66. doi: 10.1002/cpdd.3. Epub 2013 Feb 21. PubMed PMID: 27121560.

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