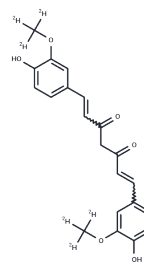


## Curcumin-D6

## Chemical Properties

CAS No. :	1246833-26-0
Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>6</sub>
Molecular Weight:	374.422
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	Curcumin-D6 is deuterium-labeled curcumin (Turmeric yellow). Curcumin (T1516) (Turmeric yellow) is a natural phenolic compound with various pharmacological effects, including anti-inflammatory, antioxidant, anti-proliferative and anti-angiogenic activities. Curcumin (T1516) is an inhibitor of p300 histone acetyltransferases (HATs), and also shows inhibitory effects on NF-κB and MAPKs.
Targets(IC50)	Mitophagy, Epigenetic Reader Domain, Ferroptosis, Nrf2, Histone Acetyltransferase, Autophagy, Influenza Virus

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6708 mL	13.354 mL	26.708 mL
5 mM	0.5342 mL	2.6708 mL	5.3416 mL
10 mM	0.2671 mL	1.3354 mL	2.6708 mL
50 mM	0.0534 mL	0.2671 mL	0.5342 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

- Gao S, et al. Curcumin attenuates arsenic-induced hepatic injuries and oxidative stress in experimental mice through activation of Nrf2 pathway, promotion of arsenic methylation and urinary excretion. *Food Chem Toxicol*. 2013 Jul 18. pii: S0278-6915(13)0004.
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- Jiang H, et al. Antidepressant-like effects of curcumin in chronic mild stress of rats: Involvement of its anti-inflammatory action. *Prog Neuropsychopharmacol Biol Psychiatry*. 2013 Jul 20. pii: S0278-5846(13)00150-4.
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