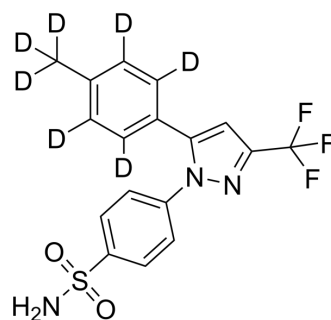


## Celecoxib-d<sub>7</sub>

<b>Cat. No.:</b>	HY-14398S		
<b>CAS No.:</b>	544686-21-7		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>7</sub> D <sub>7</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	388.42		
<b>Target:</b>	COX		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Celecoxib-d <sub>7</sub> is the deuterium labeled Celecoxib. Celecoxib, a selective non-steroidal anti-inflammatory drug (NSAID), is a selective COX-2 inhibitor with an IC <sub>50</sub> of 40 nM <sup>[1][2]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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- [7]. Liu C, et al. Celecoxib alleviates nonalcoholic fatty liver disease by restoring autophagic flux. *Sci Rep.* 2018 Mar 7;8(1):4108.

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

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