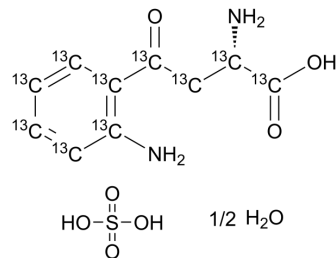


## L-Kynurenine-<sup>13</sup>C<sub>10</sub> sulfate hemihydrate

<b>Cat. No.:</b>	HY-104026CS
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>10</sub> H <sub>7</sub> N <sub>2</sub> O <sub>7</sub> S <sub>·1/2</sub> H <sub>2</sub> O
<b>Molecular Weight:</b>	318.17
<b>Target:</b>	Aryl Hydrocarbon Receptor; Endogenous Metabolite
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

#### Description

L-Kynurenine-<sup>13</sup>C<sub>10</sub> (sulfate hemihydrate) is the <sup>13</sup>C labeled L-Kynurenine sulfate. L-Kynurenine sulfate hemihydrate, an aryl hydrocarbon receptor (AHR) agonist that activates AHR-directed, naive T cell polarization to the anti-inflammatory Treg phenotype<sup>[1][2]</sup>.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Benjamin J Moyer, et al. Inhibition of the aryl hydrocarbon receptor prevents Western diet-induced obesity. Model for AHR activation by kynurenine via oxidized-LDL, TLR2/4, TGFβ, and IDO1. *Toxicol Appl Pharmacol*. 2016 Jun 1;300:13-24.

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

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