



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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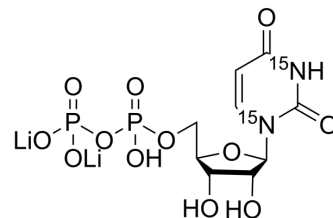
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## Uridine 5'-diphosphate-<sup>15</sup>N<sub>2</sub> dilithium

|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-113359AS3                                                                                               |
| <b>Molecular Formula:</b> | C <sub>9</sub> H <sub>12</sub> Li <sub>2</sub> <sup>15</sup> N <sub>2</sub> O <sub>12</sub> P <sub>2</sub> |
| <b>Molecular Weight:</b>  | 418.01                                                                                                     |
| <b>Target:</b>            | Isotope-Labeled Compounds; Endogenous Metabolite; P2Y Receptor                                             |
| <b>Pathway:</b>           | Others; Metabolic Enzyme/Protease; GPCR/G Protein                                                          |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis.                  |



### BIOLOGICAL ACTIVITY

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | Uridine 5'-diphosphate- <sup>15</sup> N <sub>2</sub> dilithium is <sup>15</sup> N labeled Uridine 5'-diphosphate (HY-113359). Uridine 5'-diphosphate is a P2Y <sub>6</sub> receptor agonist with an EC <sub>50</sub> of 0.013 μM for human P2Y <sub>6</sub> receptor.                                                                                                                                                          |
| <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> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Ashleigh S Paparella, et al. Clostridioides difficile TcdB Toxin Glucosylates Rho GTPase by an S<sub>N</sub>i Mechanism and Ion Pair Transition State. *ACS Chem Biol*. 2022 Sep 16;17(9):2507-2518.
- [3]. Besada P, et al. Structure-activity relationships of uridine 5'-diphosphate analogues at the human P2Y<sub>6</sub> receptor. *J Med Chem*. 2006 Sep 7;49(18):5532-43.

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

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