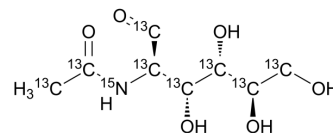


## N-Acetyl-D-glucosamine-<sup>13</sup>C<sub>8</sub>,<sup>15</sup>N

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-A0132S13  |
| <b>Molecular Formula:</b> | <sup>13</sup> C <sub>8</sub> H <sub>15</sub> <sup>15</sup> N <sub>6</sub>  |
| <b>Molecular Weight:</b>  | 230.13   |
| <b>Target:</b>            | Isotope-Labeled Compounds  |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | N-Acetyl-D-glucosamine- <sup>13</sup> C <sub>8</sub> , <sup>15</sup> N is <sup>13</sup> C and <sup>15</sup> N labeled N-Acetyl-D-glucosamine (HY-A0132). N-Acetyl-D-glucosamine is a monosaccharide derivative of glucose.   |
| <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]. Slawson C, et al. O-GlcNAc cycling: how a single sugar post-translational modification is changing the way we think about signaling networks. *J Cell Biochem.* 2006 Jan 1;97(1):71-83.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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