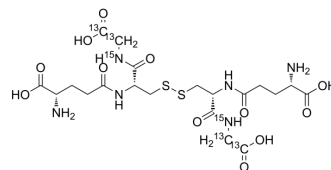


## Glutathione oxidized-<sup>13</sup>C<sub>4</sub>,<sup>15</sup>N<sub>2</sub>

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-D0844S   |       |          |
| <b>CAS No.:</b>           | 1416898-83-3  |       |          |
| <b>Molecular Formula:</b> | C <sub>16</sub> <sup>13</sup> C <sub>4</sub> H <sub>32</sub> N <sub>4</sub> <sup>15</sup> N <sub>2</sub> O <sub>12</sub> S <sub>2</sub> |       |          |
| <b>Molecular Weight:</b>  | 618.59  |       |          |
| <b>Target:</b>            | Endogenous Metabolite; Reactive Oxygen Species  |       |          |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB   |       |          |
| <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> | Glutathione oxidized- <sup>13</sup> C <sub>4</sub> , <sup>15</sup> N <sub>2</sub> is the <sup>13</sup> C and <sup>15</sup> N labeled <a href="#">Glutathione oxidized</a> (HY-D0844). Glutathione oxidized is produced by the oxidation of glutathione. Detoxification of reactive oxygen species is accompanied by production of glutathione oxidized. Glutathione oxidized can be used for the research of sickle cells and erythrocytes[1][2]. |
| <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.                    |

### CUSTOMER VALIDATION

- Cell Rep Med. 2023 May 24;101061.

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### REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

[2]. Nur E, et al. Increased efflux of oxidized glutathione (GSSG) causes glutathione depletion and potentially diminishes antioxidant defense in sickle erythrocytes. Biochim Biophys Acta. 2011 Nov;1812(11):1412-7.

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

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