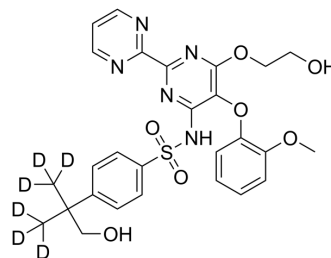


## Hydroxy Bosentan-d<sub>6</sub>

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-121385S                                                                                |
| CAS No.:           | 1246817-57-1                                                                              |
| Molecular Formula: | C <sub>27</sub> H <sub>23</sub> D <sub>6</sub> N <sub>5</sub> O <sub>7</sub> S            |
| Molecular Weight:  | 573.65                                                                                    |
| Target:            | Endogenous Metabolite; Isotope-Labeled Compounds                                          |
| Pathway:           | Metabolic Enzyme/Protease; Others                                                         |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | Hydroxy Bosentan-d <sub>6</sub> is deuterium labeled Hydroxy bosentan. Hydroxy bosentan (Ro 48-5033) is a primary metabolite of Bosentan (BOS) metabolized by the cytochrome P450 system in the liver. Ro 48-5033 assists BOS pharmacologically, retaining 10%-20% activities[1].                                                                                                                                              |
| <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]. Chen M, et al. Comparison of the inhibitory effect of ketoconazole, voriconazole, fluconazole, and itraconazole on the pharmacokinetics of bosentan and its corresponding active metabolite hydroxy bosentan in rats. *Xenobiotica*. 2019 Jul 3:1-8.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

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

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