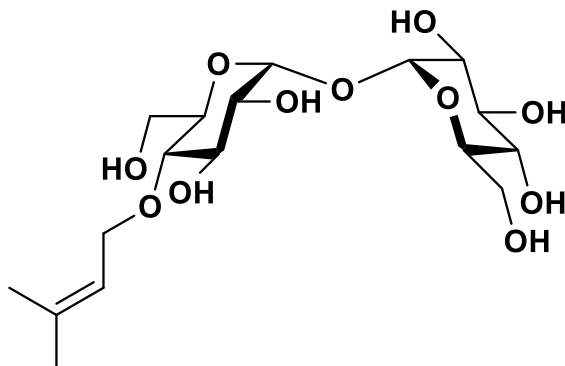


## PRODUCT DATA SHEET

Date: Feb. 2, 2022

### Lentztrehalose B

(Trehalase Resistant)



### Specifications

Code No.	: 14679
CAS#	: 1808096-67-4
Molecular Formula	: C <sub>17</sub> H <sub>30</sub> O <sub>11</sub>
Molecular Weight	: 410.416
Source	: <i>Lentzea</i> sp. ML457-mF8
Supplied as	: Powder
Purity	: >80% (qNMR)
Long Term Storage	: at -20 °C
Solubility	: Soluble in MeOH, DMSO, H <sub>2</sub> O Insoluble in Hexane

### Application Notes

Lentztrehalose B is a biologically stable analog of trehalose, isolated from the solid-state culture of *Lentzea* sp. ML457-mF8 with lentztrehalose A.<sup>1)</sup> Lentztrehalose B is stable to porcine kidney trehalase. <sup>1)</sup> While trehalose was digested by various microbes such as *Escherichia coli* K-12, lentztrehalose B was not digested by those microbes.<sup>1)</sup> After the oral administration of lentztrehalose B to mice, it showed much better blood concentration compared to that of trehalose.<sup>1)</sup>

### References

- 1) Stability and bioavailability of lentztrehaloses A, B, and C as replacements for trehalose.  
Wada S, *et al. J Agric Food Chem.* 2016 **64**(38) 7121-7126.