

## Product Datasheet

### (22S,23S)-Homobrassinolide (orb1303106)

<b>Catalog Number</b>	orb1303106
<b>Category</b>	Small Molecules
<b>Description</b>	(22S,23S)-Homobrassinolide (SSHB) is a bioactive brassinosteroid that promotes plant growth in standard bioassays. It is widely used in plant physiology and agricultural research to study hormone signaling, stress responses, and developmental processes in both in vitro and in vivo experimental systems.
<b>Target</b>	Others,PI3K,Akt,Endogenous Metabolite
<b>Purity</b>	99.77% (May vary between batches)
<b>MW</b>	494.7
<b>Target Areas</b>	PI3K Endogenous Metabolite Akt Others
<b>Solubility (25°C)</b>	DMSO:140 mg/mL (283 mM);10% DMSO+90% Corn Oil:3.3 mg/mL (6.67 mM)
<b>CAS Number</b>	80483-89-2
<b>Formula</b>	C <sub>29</sub> H <sub>50</sub> O <sub>6</sub>
<b>SMILES</b>	[H][C@@]1(CC[C@@]2([H])[C@]3([H])COC(=O)[C@@]4([H])C[C@H](O)[C@H](O)C[C@]4(C)[C@@]3([H])CC[C@]12C)[C@H](C)[C@H](O)[C@@H](O)[C@@H](CC)C)C
<b>Storage</b>	keep away from moisture   Powder: -20°C for 3 years   In solvent: -80°C for 1 year   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558