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## DATASHEET

Terrein

### Product overview

|                    |                          |
|--------------------|--------------------------|
| <b>Name</b>        | Terrein                  |
| <b>Cat No</b>      | HB4103                   |
| <b>Purity</b>      | >98%                     |
| <b>Description</b> | Antibacterial phytotoxin |

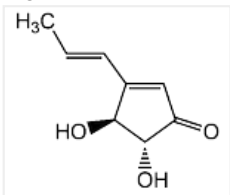
### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Antibacterial. Phytotoxin. Melanogenesis inhibitor by reducing tyrosinase production via extracellular signal-regulated protein kinase (ERK) activation. Keratinocyte and epidermis proliferation inhibitor. Anti-inflammatory modulator in pulpal inflammation. Angiogenesis inhibitor through angiogenin secretion inhibition. Collagen-induced platelet aggregation inhibitor. Antioxidant agent that enhances osseointegration by decreasing the level of ROS and having a potentially synergistic effect on osteoblast differentiation. Proteasome inhibitor. |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | +4 °C                                                                                                                         |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 4,5-Dihydroxy-3-(1-propenyl)-2-cyclopenten-1-one                                    |
| <b>Molecular Weight</b>   | 154.2                                                                               |
| <b>Chemical structure</b> |  |
| <b>CAS Number</b>         | 582-46-7                                                                            |
| <b>PubChem identifier</b> | 0                                                                                   |
| <b>SMILES</b>             | <chem>C/C=C/C1=CC(=O)C(O)C1O</chem>                                                 |
| <b>InChiKey</b>           | MHOOPNKRBMHHEC-HZIBQTDNSA-N                                                         |
| <b>Appearance</b>         | White to off-white solid                                                            |