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## DATASHEET

Leupeptin hemisulfate

### Product overview

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| <b>Name</b>        | Leupeptin hemisulfate                                    |
| <b>Cat No</b>      | HB3958                                                   |
| <b>Purity</b>      | >97%                                                     |
| <b>Description</b> | Reversible trypsin-like and cysteine proteases inhibitor |

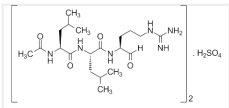
### Biological Data

|                               |                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Reversible trypsin-like and cysteine proteases inhibitor.<br><br>Shows antioxidant and anti-inflammatory actions. It is commonly used to inhibit proteases present in tissue samples to prevent protein degradation. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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>Molecular Weight</b>   | 475.6                                                                                            |
| <b>Chemical structure</b> |               |
| <b>Molecular Formula</b>  | C <sub>20</sub> H <sub>38</sub> N <sub>6</sub> O <sub>4</sub> ·0.5H <sub>2</sub> SO <sub>4</sub> |
| <b>CAS Number</b>         | 103476-89-7                                                                                      |
| <b>SMILES</b>             | CC(C)C[C@H](NC(C)=O)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCCNC(N)=[NH2+])C=O                         |
| <b>InChiKey</b>           | CIPMKIHUGVGQTG-VFFZMTJFSA-N                                                                      |
| <b>Appearance</b>         | White to off-white powder                                                                        |

### References

#### Leupeptin, a Protease Inhibitor, Decreases Protein Degradation in Normal and Diseased Muscles

Libby and Goldber (534-6) Science 199(4328)  
**PubMedID** [622552](#)

#### Cell-penetrating Inhibitors of Calpain

Mehdi (1991) Trends Biochem Sci. 16(4)  
**PubMedID** [1877091](#)

Cell-penetrating Inhibitors of Calpain

Mehdi (1991) Trends Biochem Sci. 16(4)

PubMedID 1877091

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