

# CELUX® Brefeldin A

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**Cat. no. MCCE023**

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## 1. Product Information

|                             |                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>         | CELUX® Brefeldin A                                                                                                                                                 |
| <b>Cat. No.</b>             | MCCE023                                                                                                                                                            |
| <b>Size</b>                 | 5 mg/ 10 mg/ 50 mg                                                                                                                                                 |
| <b>Storage and shipping</b> | Ice bag, store at -20°C for 2 years after receipt.<br>It is recommended to store the powder at -20°C dry after dispensing, avoiding repeated freezing and thawing. |

## 2. Product description

Brefeldin A, also known as BFA, Cyanein, Decumbin, Brefeldin A, is a commonly used reversible protein transport inhibitor, a fungal metabolite that disrupts the structure and inhibits the function of the Golgi apparatus, thereby specifically blocking the transport of proteins from the endoplasmic reticulum (ER) to the Golgi apparatus. BFA inhibits coat binding of proteins (e.g.,  $\beta$ -COP and ADP-ribosylation factor (ARF)) to the Golgi and inhibits GDP - GTP exchange. BFA inhibits the binding of coat proteins such as  $\beta$ -COP and ADP-ribosylation factor (ARF) to the Golgi and inhibits GDP - GTP exchange.

Brefeldin A has also been used to inhibit the secretion of proteins such as cytokines and to enhance the immunostaining of secreted proteins. Brefeldin A activates the sphingomyelin cycle and induces apoptosis in some tumor cells.

## 3. Performance paramete

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>English Synonym</b>  | $\gamma$ ,4-Dihydroxy-2-[6-hydroxy-1-heptenyl]-4-cyclopentanecrotonic acid $\lambda$ -lactone; cyanein; BFA; Cyanein; Decumbin |
| <b>Target</b>           | ATPase (HCT 116)                                                                                                               |
| <b>Pathway</b>          | Autophagy--Autophagy                                                                                                           |
| <b>CAS NO.</b>          | 20350-15-6                                                                                                                     |
| <b>Formula</b>          | C <sub>16</sub> H <sub>24</sub> O <sub>4</sub>                                                                                 |
| <b>Molecular Weight</b> | 280.36                                                                                                                         |
| <b>Appearance</b>       | Fine power                                                                                                                     |
| <b>Purity</b>           | ≥99%                                                                                                                           |
| <b>Solubility</b>       | Soluble in DMSO                                                                                                                |

## 4. Note

- 4.1. For your safety and health, please wear lab coat and disposable gloves to operate.
- 4.2. This product is for scientific research purposes only.
- 4.3. Centrifuge briefly before dissolving the powder to ensure that the product is all in the bottom of the tube.
- 4.4. Do not inhale, swallow or come into direct contact with skin and eyes.