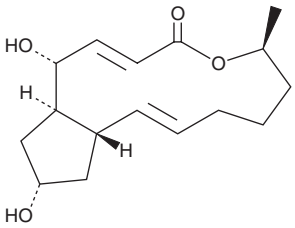
PRODUCT INFORMATION

Brefeldin A (solution)

Item No. 46800

CAS Registry No.:	20350-15-6
Formal Name:	(1R,2E,6S,10E,11aS,13S,14aR)-1,6,7,8,9,11a,12,13,14,14a-decahydro-1,13-dihydroxy-6-methyl-4H-cyclopent[f]oxacyclotridecin-4-one
Synonyms:	Ascotoxin, BFA, Cyanein, Decumbin, Nectrolide, NSC 56310, NSC 89671, NSC 107456, NSC 244390, Synergisidin
MF:	$C_{16}H_{24}O_4$
FW:	280.4
Purity:	≥98%
Supplied as:	A 5 mg/ml solution in DMSO
Storage:	-20°C
Stability:	≥2 years
Item Origin:	Microbial fermentation



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Brefeldin A (solution) is supplied as a solution in DMSO. To change the solvent, simply evaporate the DMSO under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and dimethyl formamide purged with an inert gas can be used. The solubility of brefeldin A (solution) in these solvents is approximately 1-10 mg/ml.

Description

Brefeldin A (BFA) is a macrolide lactone antibiotic that has been found in *E. brefeldianum* and has diverse biological activities.[1-6] It inhibits Golgi-membrane-dependent ADP-ribosylation factor (ARF) guanine nucleotide exchange *in vitro*.[2,3] BFA inhibits albumin secretion from, and triggers the transient disassembly of the Golgi complex in, isolated rat hepatocytes at 2.5 µg/ml.[4] BFA (100 µg/ml) reduces viral plaque formation in primary chick embryo fibroblasts infected with Newcastle disease virus (NDV).[5] It induces apoptosis in HCT116 colon cancer cells at 0.11 µM.[6] BFA has been commonly used to study endosomal trafficking and function *in vitro*.[4,7-9]

References

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WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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