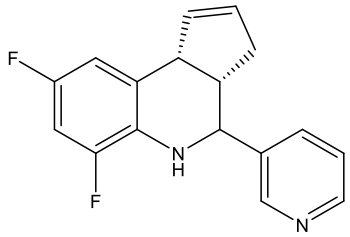
Catalog # 10-3271

Golgicide A

CAS# 1005036-73-6

6,8-Difluoro-4-pyridin-3-yl-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinolone (racemic); GCA; CID 25113626

Lot # E106529



Golgicide A is a potent, specific, reversible inhibitor (IC_{50} = 3.3 μM) of Golgi-specific brefeldin A resistance factor 1 (GBF1) which is a guanine nucleotide exchange factor that targets ADP-ribosylation factor 1 (ARF1).[1] Treatment of cells with golgicide A causes the rapid stripping of COPI protein coats from Golgi membranes and leads to the breakdown of the Golgi apparatus and the trans-Golgi network (TGN). Unlike BFA, golgicide does not inhibit other ARF-GEFs such as the BFA-inhibited guanine nucleotide-exchange protein-1 and -2 (BIG1 and BIG2). Golgicide A is a highly useful tool for studying anterograde and retrograde traffic through the Golgi and TGN.[2-4]

1) Saenz *et al*. (2009), *Golgicide A reveals essential roles for GBF1 in Golgi assembly and function*; Nat. Chem. Biol., **5** 157
2) He *et al*. (2025), *Clathrin-Independent Carriers/Glycosylphosphatidylinositol-Anchored-Protein-Enriched Endosomal Compartment Endocytic Pathway Is Critical for Enterovirus A71 Entry Into Human Oral Epidermoid Carcinoma KB Cells*; J. Med. Virol., **97** e70369
3) Dogrammatzis *et al*. (2024), *Tracing the STING exocytosis pathway during herpes viruses infection*; mBio, **15** e00373-24
4) Klabunde *et al*. (2023), *Streptococcus pneumoniae disrupts the structure of the golgi apparatus and subsequent epithelial cytokine response in an H_2O_2-dependent manner*; Cell Commun. Signal., **21** 208

PHYSICAL DATA

Molecular Weight:	284.31
Molecular Formula:	$C_{17}H_{14}F_2N_2$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/ml)
Physical Description:	Off-white to beige solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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