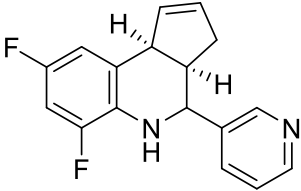


Product data sheet



MedKoo Cat#: 555903 Name: Golgicide A CAS#: 1139889-93-2 Chemical Formula: C ₁₇ H ₁₄ F ₂ N ₂ Exact Mass: 284.1125 Molecular Weight: 284.3098		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions:	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Golgicide A is a Potent, selective and reversible inhibitor of GBF1 ArfGEF. Golgicide A inhibited HSV-1 entry via beta-galactosidase reporter assay and impaired incoming virus transport to the nuclear periphery. Inhibition of GBF1 via Golgicide A can result in rapid dissociation of COPI vesicle coat protein from Golgi membranes and disassembly of the Golgi and trans-Golgi network.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	45.30	159.34

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.52 mL	17.59 mL	35.17 mL
5 mM	0.70 mL	3.52 mL	7.03 mL
10 mM	0.35 mL	1.76 mL	3.52 mL
50 mM	0.07 mL	0.35 mL	0.70 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. van der Linden L, van der Schaar HM, Lanke KH, Neyts J, van Kuppeveld FJ. Differential effects of the putative GBF1 inhibitors Golgicide A and AG1478 on enterovirus replication. J Virol. 2010 Aug;84(15):7535-42. doi: 10.1128/JVI.02684-09. Epub 2010 May 26. PMID: 20504936; PMCID: PMC2897619.
2. Sáenz JB, Sun WJ, Chang JW, Li J, Bursulaya B, Gray NS, Haslam DB. Golgicide A reveals essential roles for GBF1 in Golgi assembly and function. Nat Chem Biol. 2009 Mar;5(3):157-65. doi: 10.1038/nchembio.144. Epub 2009 Feb 1. PMID: 19182783; PMCID: PMC3500152.

In vivo study

TBD

7. Bioactivity

Biological target:

Golgicide A (GCA) is a potent, highly specific, and reversible inhibitor of the cis-Golgi ADP-ribosylation factor guanine nucleotide exchange factors (ArfGEF) GBF1.

Product data sheet



In vitro activity

The effect of GCA on toxin trafficking and on intracellular organelle morphology was examined. Immunofluorescence experiments demonstrated dramatic effects of GCA on the Golgi and TGN. Whereas the Golgi remains as a tightly organized perinuclear ribbon in untreated cells, GCA caused complete dispersal of the medial-Golgi markers giantin and the cis-Golgi marker GM130. Treatment with GCA resulted in a diffuse and punctate distribution of the medial-Golgi marker giantin. The punctate structures were in contact with Sec31-positive foci, indicative of their association with ER exit sites. GCA also caused the TGN to disperse into small vesicles that subsequently disseminated throughout the cell.

Reference: Nat Chem Biol. 2009 Mar;5(3):157-65. <https://pubmed.ncbi.nlm.nih.gov/19182783/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.