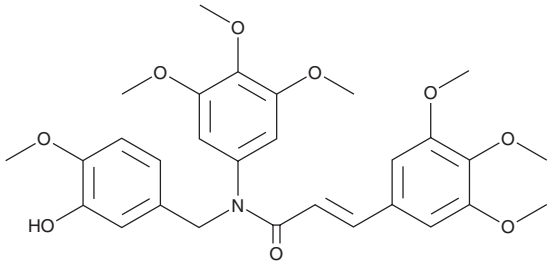
PRODUCT INFORMATION

MY-1076

Item No. 46479

CAS Registry No.:	3008262-76-5
Formal Name:	(2E)-N-[(3-hydroxy-4-methoxyphenyl)methyl]-N,3-*bis*(3,4,5-trimethoxyphenyl)-2-propenamide
MF:	$C_{29}H_{33}NO_9$
FW:	539.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

MY-1076 is supplied as a solid. A stock solution may be made by dissolving the MY-1076 in the solvent of choice, which should be purged with an inert gas. MY-1076 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

MY-1076 is an inhibitor of tubulin polymerization and an inducer of Yes-associated transcriptional regulator (YAP) degradation.[1] It inhibits tubulin polymerization, but not nuclear division, in MGC803 and SGC-7901 gastric cancer cells at 10-30 nM and induces degradation of YAP in MGC803 cells in a concentration-dependent manner. MY-1076 inhibits the proliferation of MGC803 and SGC-7901 gastric, HCT116 colon, and KYSE-450 esophageal cancer cells (IC_{50}s = 0.019, 0.017, 0.02, and 0.044 µM, respectively). It also induces cell cycle arrest at the G_2/M phase and apoptosis in MGC803 and SGC-7901 cells. MY-1076 (5 µg/kg per day) reduces pulmonary metastasis induced by MEOHP, a metabolite of the environmental contaminant DEHP, in a T24 bladder cancer mouse xenograft model, with a greater reduction when administered in combination with ICG-001 (Item No. 16257).[2]

References

1. Fu, X.J., Huang, J., Li, N., *et al.* Design, synthesis and biological evaluation of N-benzylaryl cinnamide derivatives as tubulin polymerization inhibitors capable of promoting YAP degradation with potent anti-gastric cancer activities. *Eur. J. Med. Chem.* **262**, 115883 (2023).
2. Wang, Y., Ni, H., Dong, S., *et al.* Environmental dose MEOHP promotes bladder cancer progress through hybrid EMT mechanism: Based on the adverse outcome pathway. *Environ. Sci. Technol.* **60(8)**, 5979-5990 (2026).

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.

WARRANTY AND LIMITATION OF REMEDY
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