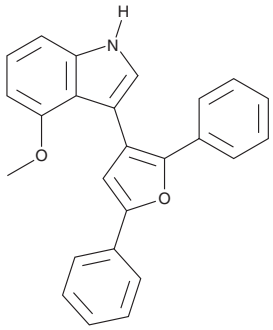
PRODUCT INFORMATION

MMP-9-IN-6

Item No. 46740

CAS Registry No.:	2241964-36-1
Formal Name:	3-(2,5-diphenyl-3-furanyl)-4-methoxy-1H-indole
Synonyms:	Matrix Metalloproteinase 9-IN-6, Matrix Metalloproteinase 9 Inhibitor 6, MMP 9 Inhibitor 6
MF:	$C_{25}H_{19}NO_2$
FW:	365.4
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

MMP-9-IN-6 is supplied as a solid. A stock solution may be made by dissolving the MMP-9-IN-6 in the solvent of choice, which should be purged with an inert gas. MMP-9-IN-6 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

MMP-9-IN-6 is an inhibitor of matrix metalloproteinase-9 (MMP-9; IC_{50} = 50 µM).[1] It inhibits gastric ulceration induced by indomethacin (Item No. 70270) by 95% in mice at 50 mg/kg. MMP-9-IN-6 reduces indomethacin-induced increases in stomach myeloperoxidase (MPO) activity, protein carbonylation, and lipid peroxidation in mice.

Reference

1. Rudra, D.S., Chatterjee, S., Pal, U., *et al*. Newly synthesized 3-indolyl furanoid inhibits matrix metalloproteinase-9 activity and prevents nonsteroidal anti-inflammatory drug-induced gastric ulceration. *J. Med. Chem.* **66(13)**, 8917-8928 (2023).

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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