PRODUCT INFORMATION

STOCK1N-57534

Item No. 45107

Formal Name: (1′R,3′S,3′aS,6′aR)-5′-[4-(acetyloxy) phenyl]-6-chloro-3′a,6′a-dihydro-7-methyl-3′-(phenylmethyl)-spiro[3H-indole-3,1′(2′H)-pyrrolo[3,4-c]pyrrole]-2,4′,6′(1H,3′H,5′H)-trione

MF: $C_{29}H_{24}ClN_3O_5$

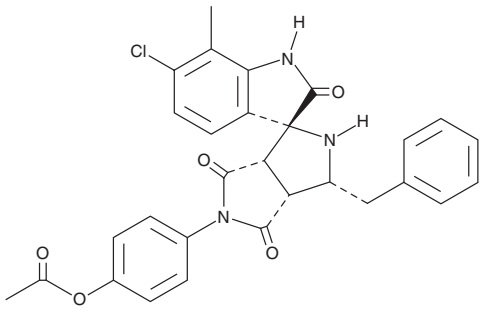
FW: 530.0

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

STOCK1N-57534 is supplied as a solid. A stock solution may be made by dissolving the STOCK1N-57534 in the solvent of choice, which should be purged with an inert gas. STOCK1N-57534 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

STOCK1N-57534 is an inducer of mitophagy, a selective form of autophagy for the clearance of damaged mitochondria.[1] It induces the formation of autophagy receptor p62 disulfide-linked conjugates and restores autophagic flux and the formation of p62- and LC3-II-positive autophagosomes in autophagy-related protein 5 knockout (*Atg5*$^{-/-}$) mouse embryonic fibroblasts (MEFs) at a concentration of 30 µM. STOCK1N-57534 restores mitophagy in irradiated human diploid fibroblasts (HDFs) and HDFs from aged donors, both expressing the mitophagy reporter mt-mKeima.

Reference

1. Kelly, G., Kataura, T., Panek, J., *et al*. Suppressed basal mitophagy drives cellular aging phenotypes that can be reversed by a p62-targeting small molecule. *Dev. Cell* **59(15)**, 1924-1939.e7 (2024).

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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