

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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PRODUCT INFORMATION



C53

Item No. 37354

CAS Registry No.: 2259624-71-8

Formal Name: 1-[(2-chloro-6-fluorophenyl)

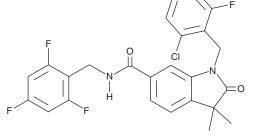
methyl]-2,3-dihydro-3,3-dimethyl-2-oxo-N-[(2,4,6-trifluorophenyl) methyl]-1H-indole-6-carboxamide

Synonym: STING Agonist-12 MF: C25H19CIF4N2O2

490.9 FW: **Purity:** ≥98% UV/Vis.: λ_{max} : 219 nm A crystalline solid Supplied as:

Storage: -20°C Stability: ≥2 years

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



Laboratory Procedures

C53 is supplied as a crystalline solid. A stock solution may be made by dissolving the C53 in the solvent of choice, which should be purged with an inert gas. C53 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of C53 in these solvents is approximately 2 and 1 mg/ml, respectively.

Description

C53 is a STING agonist. 1 It activates human wild-type STING (EC $_{50}$ = 185 nM), as well as STING containing the polymorphisms R232, H232, or HAQ in HEK293 cells in an interferon-stimulated gene 54 (ISG54) luciferase reporter assay when used at a concentration of 10 μM. C53 (10 μM) induces the expression of IFN-α, IFN-β, TNF-α, chemokine (C-X-C motif) ligand 10 (CXCL10), IL-12p40, and IL-6 in isolated human monocyte-derived dendritic cells (hMO-DCs). It also increases the expression of the dendritic cell markers CD83 and CD86 in hMO-DCs when used at a concentration of 10 μ M.

Reference

1. Pryde, D.C., Middya, S., Banerjee, M., et al. The discovery of potent small molecule activators of human STING. Eur. J. Med. Chem. 209, 112869 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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.

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