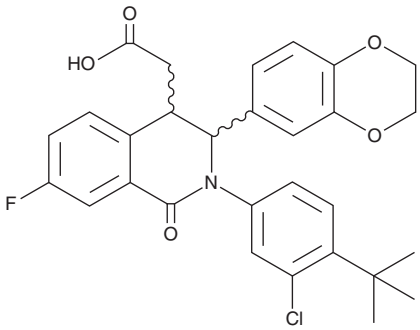
PRODUCT INFORMATION

STING18

Item No. 28319

CAS Registry No.: 2706536-26-5
Formal Name: 2-[3-chloro-4-(1,1-dimethylethyl) phenyl]-3-(2,3-dihydro-1,4-benzodioxin-6-yl)-7-fluoro-1,2,3,4-tetrahydro-1-oxo-4-isoquinolineacetic acid
Synonym: Stimulator of Interferon Genes 18
MF: $C_{29}H_{27}ClFNO_5$
FW: 524.0
Purity: ≥98%
Supplied as: A crystalline 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

STING18 is supplied as a crystalline solid. A stock solution may be made by dissolving the STING18 in the solvent of choice, which should be purged with an inert gas. STING18 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of STING18 in these solvents is approximately 5 and 10 mg/ml, respectively.

STING18 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, STING18 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. STING18 has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

STING18 is a competitive ligand of stimulator of interferon genes (STING; IC_{50} = 0.068 µM in a radioligand binding assay).[1] It inhibits cGAMP-induced IFN-β production (IC_{50} = 11 µM) but does not stimulate IFN-β production (EC_{50} = >30 µM) in THP-1 cells.

Reference

1. Siu, T., Altman, M.D., Baltus, G.A., *et al.* Discovery of a novel cGAMP competitive ligand of the inactive form of STING. *Med. Chem. Lett.* **10(1)**, 92-97 (2019).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM