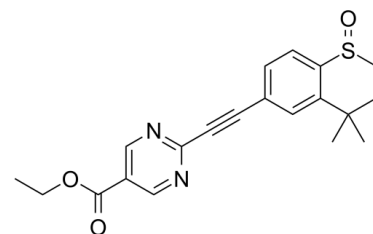


Data Sheet

Product Name:	WYC-209
Cat. No.:	CS-0084453
CAS No.:	2131803-90-0
Molecular Formula:	C ₂₀ H ₂₀ N ₂ O ₃ S
Molecular Weight:	368.45
Target:	Apoptosis; Autophagy; RAR/RXR
Pathway:	Apoptosis; Autophagy; Metabolic Enzyme/Protease
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : 83.33 mg/mL (226.16 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

WYC-209, a synthetic retinoid, is a **retinoic acid receptor (RAR)** agonist. WYC-209 induces apoptosis primarily via the **caspase 3** pathway (**IC₅₀**=0.19 μ M for in malignant murine melanoma TRCs), and has long-term effects with little toxicity^[1]. **IC₅₀ & Target:** Retinoic acid receptor^[1] **In Vitro:** WYC-209 (10 μ M; 24 hours) is able to inhibit and block growth of TRCs of human tumor cells in culture with a long-lasting effect^[1]. **In Vivo:** WYC-209 (0.022-0.22 mg/kg; i.v.; once every two days for 25 days) inhibits tumor metastasis in C57BL/6 mice bearing lung metastases^[1].

References:

[1]. Chen J, et al. Inhibition of cancer stem cell like cells by a synthetic retinoid. Nat Commun. 2018 Apr 11;9(1):1406.

CAIndexNames:

5-Pyrimidinecarboxylic acid, 2-[2-(3,4-dihydro-4,4-dimethyl-1-oxido-2H-1-benzothiopyran-6-yl)ethynyl]-, ethyl ester

SMILES:

O=C(C1=CN=C(C#CC2=CC=C3C(C(C)CCS3=O)=C2)N=C1)OCC

Caution: Product has not been fully validated for medical applications. For research use only.

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