

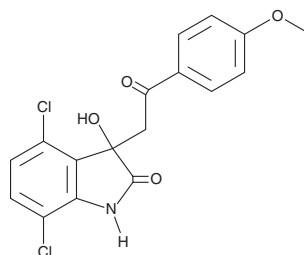
Product Information



YK-4-279

Catalog No. 13661

CAS Registry No.: 1037184-44-3
Formal Name: 4,7-dichloro-1,3-dihydro-3-hydroxy-3-[2-(4-methoxyphenyl)-2-oxoethyl]-2H-indole-2-one
MF: C₁₇H₁₃Cl₂NO₄
FW: 366.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that YK-4-279 be stored as supplied at -20°C. It should be stable for at least two years.

YK-4-279 is supplied as a crystalline solid. A stock solution may be made by dissolving the YK-4-279 in the solvent of choice. YK-4-279 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of YK-4-279 in these solvents is approximately 30 mg/ml.

YK-4-279 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, YK-4-279 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. YK-4-279 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

ES-FLI1 is an oncogenic fusion protein found in Ewing's sarcoma, a family of undifferentiated tumors that occur throughout the body. The binding of RNA helicase A (RHA) to ES-FLI1 promotes its oncogenic function. YK-4-279 is an inhibitor of protein-protein interactions between ES-FLI1 and RHA. At 10 μM, YK-4-279 blocks RHA binding to ES-FLI1 and induces apoptosis of a panel of Ewing's sarcoma tumor cell lines with IC₅₀ values ranging from 0.5-2 μM.¹ At 1.5 mg per dose, YK-4-279 reduces the growth of Ewing's sarcoma orthotopic xenografts in mice after treatment with the inhibitor for two weeks.¹

Reference

1. Erkizan, H.V., Kong, Y., Merchant, M., *et al.* A small molecule blocking oncogenic protein EWS-FLI1 interaction with RNA helicase A inhibits growth of Ewing's sarcoma. *Nature Med.* **15**(7), 750-756 (2009).

Cayman Chemical

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any **obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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