

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



BAY-2402234

Item No. 33259

		F' Y Cl
CAS Registry No.:	2225819-06-5	
Formal Name:	N-(2-chloro-6-fluorophenyl)-4-[4-ethyl-	F O H
	4,5-dihydro-3-(hydroxymethyl)-5-oxo-1H-	F
	1,2,4-triazol-1-yl]-5-fluoro-2-[(1S)-2,2,2-	F
	trifluoro-1-methylethoxy]-benzamide	
MF:	C ₂₁ H ₁₈ CIF ₅ N ₄ O ₄	F
FW:	520.8	N
Purity:	≥98%	0 N
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥2 years	ОН
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BAY-2402234 is supplied as a crystalline solid. A stock solution may be made by dissolving the BAY-2402234 in the solvent of choice, which should be purged with an inert gas. BAY-2402234 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of BAY-2402234 in ethanol is approximately 30 mg/ml and approximately 10 mg/ml in DMSO and DMF.

BAY-2402234 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BAY-2402234 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. BAY-2402234 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BAY-2402234 is an inhibitor of dihydroorotate dehydrogenase (DHODH; IC₅₀ = 1.2 nM).¹ It induces upregulation of the cell differentiation marker CD11b in MOLM-13 and HEL acute myeloid leukemia (AML) cells (EC₅₀s = 3.16 and 0.96 nM, respectively) and inhibits the proliferation of nine leukemia cell lines $(IC_{50}s = 0.08-8.2 \text{ nM})$. BAY-2402234 induces cell cycle arrest at the G₂/M phase and apoptosis in TF-1 cells in a concentration-dependent manner. In vivo, BAY-2402234 (1.25, 2.5, and 5 mg/kg) reduces tumor volume in an MV4-11 mouse xenograft model. It also increases survival in patient-derived xenograft (PDX) mouse models of AML.

Reference

1. Christian, S., Merz, C., Evans, L., et al. The novel dihydroorotate dehydrogenase (DHODH) inhibitor BAY 2402234 triggers differentiation and is effective in the treatment of myeloid malignancies. Leukemia 33(10), 2403-2415 (2019).

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

SAFFTY 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.

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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