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Produktinformation

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

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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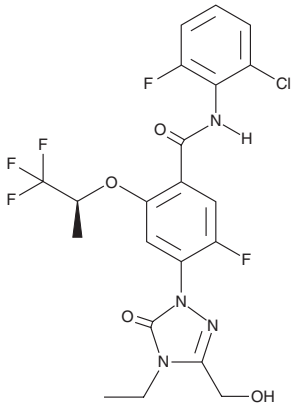
PRODUCT INFORMATION

BAY-2402234

Item No. 33259



CAS Registry No.:	2225819-06-5
Formal Name:	N-(2-chloro-6-fluorophenyl)-4-[4-ethyl-4,5-dihydro-3-(hydroxymethyl)-5-oxo-1H-1,2,4-triazol-1-yl]-5-fluoro-2-[(1S)-2,2,2-trifluoro-1-methylethoxy]-benzamide
MF:	$C_{21}H_{18}ClF_5N_4O_4$
FW:	520.8
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

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; IC_{50} = 1.2 nM).[1] It induces upregulation of the cell differentiation marker CD11b in MOLM-13 and HEL acute myeloid leukemia (AML) cells (EC_{50}s = 3.16 and 0.96 nM, respectively) and inhibits the proliferation of nine leukemia cell lines (IC_{50}s = 0.08-8.2 nM). BAY-2402234 induces cell cycle arrest at the G_2/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).

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