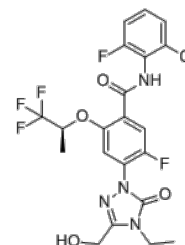


**Product Name** : BAY 2402234  
**Cat. No.** : PC-36161  
**CAS No.** : 2225819-06-5  
**Molecular Formula** : C<sub>21</sub>H<sub>18</sub>ClF<sub>5</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 520.841  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

Orludodstat (BAY2402234) is a novel potent, selective, orally bioavailable **DHODH** inhibitor with IC<sub>50</sub> of 1.2 nM (human full-length DHODH).

BAY2402234 binds the ubiquinone binding site of DHODH between the N-terminal helices.

BAY2402234 causes dose-dependent upregulation of CD11b with EC<sub>50</sub>s of 3.16 nM in MOLM-13 cells and 0.96 nM in HEL cells, inhibits the proliferation of THP-1 cells with an IC<sub>50</sub> of 2.6 nM, as well as nine other leukemia cell lines representing diverse AML subtypes (IC<sub>50</sub>=0.08-8.2 nM).

BAY 2402234 shows monotherapy efficacy and differentiation induction across multiple AML subtypes both in vitro and in vivo.

## References

Christian S, et al. *Leukemia*. 2019 Apr 2. doi: 10.1038/s41375-019-0461-5.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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