



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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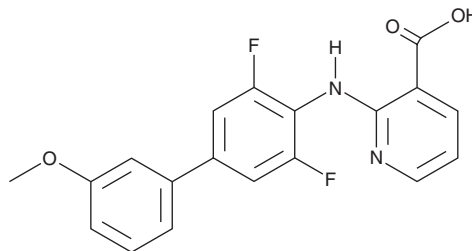
# PRODUCT INFORMATION



**ASLAN003**

Item No. 33516

**CAS Registry No.:** 1035688-66-4  
**Formal Name:** 2-[(3,5-difluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]-3-pyridinecarboxylic acid  
**MF:** C<sub>19</sub>H<sub>14</sub>F<sub>2</sub>N<sub>2</sub>O<sub>3</sub>  
**FW:** 356.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 288 nm  
**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

ASLAN003 is supplied as a crystalline solid. A stock solution may be made by dissolving the ASLAN003 in the solvent of choice, which should be purged with an inert gas. ASLAN003 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of ASLAN003 in these solvents is approximately 30 mg/ml.

ASLAN003 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ASLAN003 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ASLAN003 has a solubility of approximately 0.12 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

ASLAN003 is an inhibitor of dihydroorotate dehydrogenase (DHODH; IC<sub>50</sub> = 35 nM).<sup>1</sup> It inhibits the proliferation of MOLM-14 and KG-1 acute myeloid leukemia (AML) cells (IC<sub>50</sub>s = 0.582 and 0.382 μM, respectively), as well as induces apoptosis in the same cells when used at concentrations of 0.5 and 1 μM. ASLAN003 (1, 2, and 4 μM) induces differentiation in bone marrow cells isolated from patients with AML or myelodysplastic syndrome (MDS). It improves survival in a patient-derived xenograft (PDX) mouse model of AML when administered at a dose of 50 mg/kg.

## Reference

1. Zhou, J., Quah, J.Y., Ng, Y., et al. ASLAN003, a potent dihydroorotate dehydrogenase inhibitor for differentiation of acute myeloid leukemia. *Haematologica* **105**(9), 2286-2297 (2020).

### WARNING

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

### SAFETY 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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