



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

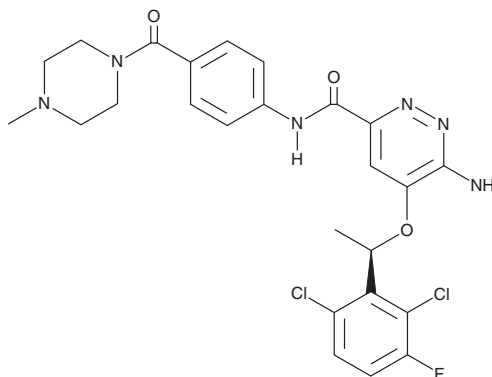
# PRODUCT INFORMATION



## Ensartinib

Item No. 21341

**CAS Registry No.:** 1365267-27-1  
**Formal Name:** 6-amino-5-[(1R)-1-(2,6-dichloro-3-fluorophenyl)ethoxy]-N-[4-[(4-methyl-1-piperazinyl)carbonyl]phenyl]-3-pyridazinecarboxamide  
**MF:** C<sub>25</sub>H<sub>25</sub>Cl<sub>2</sub>FN<sub>6</sub>O<sub>3</sub>  
**FW:** 547.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 244, 296 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

Ensartinib is supplied as a crystalline solid. A stock solution may be made by dissolving the ensartinib in the solvent of choice. Ensartinib is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of ensartinib in these solvents is approximately 5, 14, and 20 mg/ml, respectively.

Ensartinib is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ensartinib should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Ensartinib has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Ensartinib is a potent and selective inhibitor of anaplastic lymphoma kinase (ALK; IC<sub>50</sub> < 0.4 nM in a KINOMEScan kinase activity assay).<sup>1</sup> It reduces ALK autophosphorylation and inhibits endogenous ALK phosphorylation and activation of downstream targets ERK and Akt in H3122 cells. Ensartinib reduces growth of H3122 lung cancer cells harboring gain-of-function ALK-fusion proteins (IC<sub>50</sub> = 15 nM) but has no effect on cell growth driven by other mutant kinases or that of non-cancerous HepG2 cells. Ensartinib, at a dose of 25 mg/kg, reduces H3122 xenograft growth with no effect on body weight in nude mice. It is also brain-permeable to a concentration of 65 nM.

### Reference

1. Lovly, C.M., Heuckmann, J.M., de Stanchina, E., *et al.* Insights into ALK-driven cancers revealed through development of novel ALK tyrosine kinase inhibitors. *Cancer Res.* **71**(14), 4920-4931 (2011).

#### 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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#### 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