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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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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

www.szabo-scandic.com

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

Product Information

Description**Background:**

Galunisertib is a TGF- β kinase (ALK5) antagonist.

Galunisertib, or LY2157299 monohydrate) is a highly potent and selective inhibitor of TGF- β (transforming growth factor β) receptor I kinase that binds to the ATP-binding site of the protein. The TGF- β superfamily is critical for the development of cells and tissues, and their continued homeostasis. In the context of cancer, TGF- β signaling plays a protective role in the early stages of the disease, but as promoter at later stages, which abnormal signaling being implicated in glioblastoma, breast cancer and others. Targeting this pathway has thus gained interest in oncology. Galunisertib was shown to inhibit tumor growth in animal models of cancer, but exposure in the long term resulted in cardiac toxicity. It is currently being studied in a phase Ib/II clinical trial for the treatment of solid tumors and NSCLC (non-small cell lung cancer) in combination with nivolumab, a monoclonal antibody that blocks PD-1 (programmed cell death 1).

Chemical Name:

4-[2-(6-Methylpyridin-2-yl)-5,6-dihydro-4H-pyrrolo[1,2-b]pyrazol-3-yl]quinoline-6-carboxamide

Molecular Formula:

C₂₂H₁₉N₅O

Supplied As:

Solid

Solubility:

Soluble in DMSO (up to 25 mg/ml)

Storage/Stability:

Upon receipt, store at -20°C. Stable for 1 year from date of receipt, when stored as directed. Solutions are stable for up to 1 month at -20°C.

MW:

369.43 Da

Cas No.

700874-72-2

Purity:

≥98% by NMR

References:

Nadal E., *et al.*, 2023 *BMC Cancer* 23:708.

Yingling J., *et al.*, 2018 *Oncotarget* 9(6):6659-6677.

Chemical Structure

