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Diagnostik & molekulare Diagnostik



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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

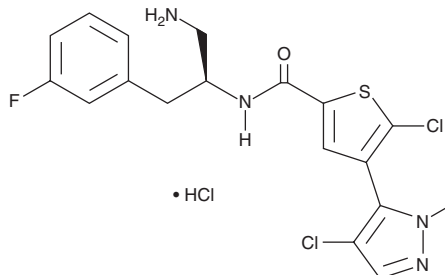


Afuresertib (hydrochloride)

Item No. 17988

CAS Registry No.: 1047645-82-8
Formal Name: N-[(1S)-2-amino-1-[(3-fluorophenyl)methyl]ethyl]-5-chloro-4-(4-chloro-1-methyl-1H-pyrazol-5-yl)-2-thiophenecarboxamide, monohydrochloride

Synonym: GSK2110183B
MF: C₁₈H₁₇Cl₂FN₄OS • HCl
FW: 463.8
Purity: ≥98%
UV/Vis.: λ_{max}: 230, 262 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

Afuresertib (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the afuresertib (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Afuresertib (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of afuresertib (hydrochloride) in ethanol and DMF is approximately 50 mg/ml and approximately 30 mg/ml in DMSO.

Afuresertib (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, afuresertib (hydrochloride) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Afuresertib (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Afuresertib is a pan-Akt inhibitor (IC₅₀s = 0.08, 2, and 2.6 nM for Akt1, -2, and -3, respectively).¹ It is selective for Akt over a panel of 13 kinases (IC₅₀s = >100 nM) but does inhibit PKA, PKG1α, and PKG1β (IC₅₀s = 1.3, 0.9, and 4 nM, respectively). Afuresertib (10, 30, and 100 mg/kg) inhibits tumor growth in an SKOV3 mouse xenograft model.

Reference

1. Dumble, M., Crouthamel, M.C., Zhang, S.Y., *et al.* Discovery of novel AKT inhibitors with enhanced anti-tumor effects in combination with the MEK inhibitor. *PLoS One* **9**(6), e100880 (2014).

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.

WARRANTY AND LIMITATION OF REMEDY

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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