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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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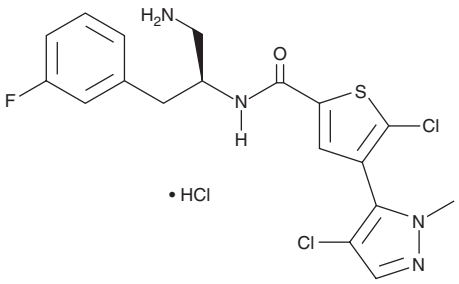
PRODUCT INFORMATION

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: $C_{18}H_{17}Cl_2FN_4OS \bullet HCl$
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 (IC_{50}s = 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 (IC_{50}s = >100 nM) but does inhibit PKA, PKG1α, and PKG1β (IC_{50}s = 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).

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