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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- 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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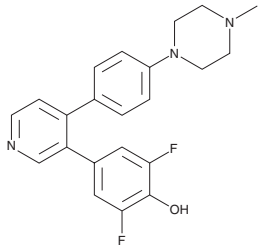
PRODUCT INFORMATION

LJH685

Item No. 19913

CAS Registry No.:	1627710-50-2
Formal Name:	2,6-difluoro-4-[4-[4-(4-methyl-1-piperazinyl)phenyl]-3-pyridinyl]-phenol
MF:	$C_{22}H_{21}F_2N_3O$
FW:	381.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 237, 270, 316 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

LJH685 is supplied as a crystalline solid. A stock solution may be made by dissolving the LJH685 in the solvent of choice. LJH685 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of LJH685 in ethanol is approximately 2.5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

LJH685 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, LJH685 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. LJH685 has a solubility of approximately 0.125 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

LJH685 is an inhibitor of p90 ribosomal S6 kinases (RSKs, also known as MAP kinase-activated protein kinases, or MAPKAPKs) that inhibits RSK1, 2, and 3 *in vitro* with IC_{50} values of 6, 5, and 4 nM, respectively.[1] It is selective for RSKs over a panel of 96 other kinases. LJH685 blocks RSK activity in cells, preventing phosphorylation of y-box-binding protein 1 on Ser^{102}.[1] The inhibition of RSK activity correlates with antiproliferative effects in MAPK pathway-dependent cancer cell lines, but only in an anchorage-independent growth setting.[1]

References

1. Aronchik, I., Appleton, B.A., Basham, S.E., *et al.* Novel potent and selective inhibitors of p90 ribosomal S6 kinase reveal the heterogeneity of RSK function in MAPK-driven cancers. *Mol. Cancer Res.* **12(5)**, 803-812 (2014).

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