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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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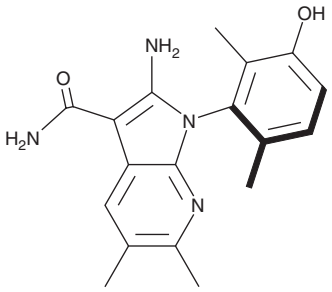
PRODUCT INFORMATION

RP 6306

Item No. 41732

CAS Registry No.:	2719793-90-3
Formal Name:	(1S)-2-amino-1-(3-hydroxy-2,6-dimethylphenyl)-5,6-dimethyl-1H-pyrrolo[2,3-b]pyridine-3-carboxamide
Synonyms:	Lunresertib, (S)-RP 6306
MF:	$C_{18}H_{20}N_4O_2$
FW:	324.4
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RP 6306 is supplied as a solid. A stock solution may be made by dissolving the RP 6306 in the solvent of choice, which should be purged with an inert gas. RP 6306 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

RP 6306 is an inhibitor of membrane-associated tyrosine- and threonine-specific Cdc2-inhibitory kinase (Myt1 kinase), also known as PKMYT1 (IC_{50} = 0.002 nM in a bioluminescence resonance energy transfer (BRET) assay).[1] It is greater than 29-fold selective for Myt1 kinase over eight other kinases in BRET assays at 1.2 µM. RP 6306 (500 nM) increases the levels of DNA-associated γ histone H2AX (γH2AX), a marker of DNA damage, in hTERT FT 282 fallopian tube cells.[2] It induces cell cycle arrest at the S phase in hTERT FT 282 cells. Dietary administration of RP 6306 (15, 50, or 300 ppm) reduces tumor volume in an OVCAR-3 ovarian cancer mouse xenograft model.[1]

References

1. Szychowski, J., Papp, R., Dietrich, E., *et al.* Discovery of an orally bioavailable and selective PKMYT1 inhibitor, RP-6306. *J. Med. Chem.* **65(15)**, 10251-10284 (2022).
2. Gallo, D., Young, J.T.F., Fourtounis, J., *et al. CCNE1* amplification is synthetic lethal with PKMYT1 kinase inhibition. *Nature* **604(7907)**, 749-756 (2022).

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