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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



FLT3-IN-3

Item No. 36106

CAS Registry No.: 2229050-90-0
Formal Name: N²-(*trans*-4-aminocyclohexyl)-9-cyclopentyl-N⁶-[4-(4-morpholinylmethyl)phenyl]-9H-purine-2,6-diamine

Synonym: SAN50900

MF: C₂₇H₃₈N₈O

FW: 490.6

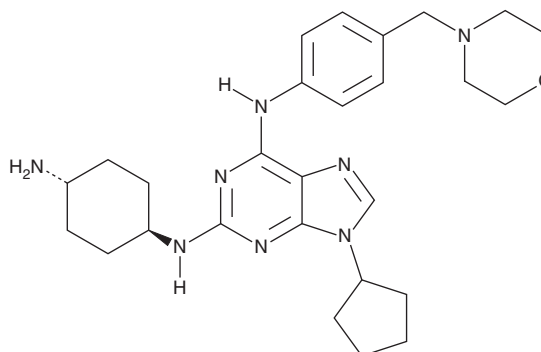
Purity: ≥98%

UV/Vis.: λ_{max}: 262, 312 nm

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

FLT3-IN-3 is supplied as a solid. A stock solution may be made by dissolving the FLT3-IN-3 in the solvent of choice, which should be purged with an inert gas. FLT3-IN-3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of FLT3-IN-3 in ethanol is approximately 15 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Description

FLT3-IN-3 is an inhibitor of FMS-related tyrosine kinase 3 (FLT3).¹ It inhibits wild-type, FLT3^{D835Y}, and FLT3 bearing internal-tandem duplication (FLT3-ITD; IC₅₀s = 13, 8, and 3 nM, respectively). FLT3-IN-3 suppresses the growth of MV4-11 acute myeloid leukemia (AML) cells that express FLT3-ITD (GI₅₀ = 7 nM). It induces cell cycle arrest at the G₁ phase and apoptosis in the same cells. FLT3-IN-3 (10 mg/kg) reduces intratumor FLT3-ITD autophosphorylation in a MV4-11 mouse xenograft model.

Reference

1. Gucký, T., E., Ř., Radošová Muchová, T., *et al.* Discovery of N²-(4-amino-cyclohexyl)-9-cyclopentyl-N⁶-(4-morpholin-4-ylmethyl-phenyl)-9H-purine-2,6-diamine as a potent FLT3 kinase inhibitor for acute myeloid leukemia with FLT3 mutations. *J. Med. Chem.* **61**(90), 3855-3869 (2018).

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.

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