

Product Name: JQKD 82 dihydrochloride

Catalog No.: 7676

Batch No.: 1

CAS Number: 2863635-05-4

IUPAC Name: 2,4-Diisopropoxyphenyl 2-(((2-((2-(dimethylamino)ethyl)(ethyl)amino)-2-oxoethyl)amino)methyl)isonicotinate dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₄₀N₄O₅·2HCl·2³/₄H₂O

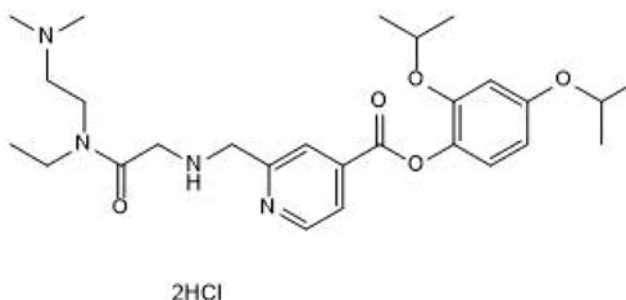
Batch Molecular Weight: 623.1

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.05	7.68	8.99
Found	51.2	7.34	8.86

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

JQKD 82 dihydrochloride is cell-permeable, selective inhibitor of lysine demethylase 5 (KDM5). JQKD 82 does not show activity toward other KDMs; and it has selectivity for KDM5A over other KDM5 isoforms. JQKD 82 causes hypermethylation of H3K4me3, downregulation of MYC targets and RNAPII phosphorylation; it suppresses multiple myeloma cell (MM.1S) growth (IC₅₀ = 0.42 μmol/L). JQKD 82-treated tumors display an increase in H3K4me3 levels and results in a reduction of MYC immuno-staining in NSG mice.

Physical and Chemical Properties:

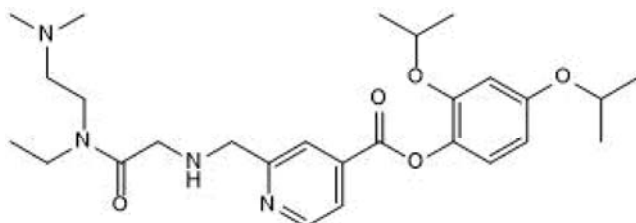
Batch Molecular Formula: C₂₇H₄₀N₄O₅·2HCl·2½H₂O

Batch Molecular Weight: 623.1

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



2HCl

References:

Ohguchi et al (2021) Lysine demethylase 5A is required for MYC driven transcription in multiple myeloma. *Blood Cancer Discov.* **2** 370. PMID: 34258103.

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute

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