Certificate of Analysis

Product Name: **Idasanutlin** **Catalog No.: 6904** **Batch No.: 1**

CAS Number: 1229705-06-9

IUPAC Name: 4-[[[(2*R*,3*S*,4*R*,5*S*)-3-(3-Chloro-2-fluorophenyl)-4-(4-chloro-2-fluorophenyl)-4-cyano-5-(2,2-dimethylpropyl)-2-pyrrolidinyl]carbonyl]amino]-3-methoxybenzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{31}H_{29}Cl_2F_2N_3O_4$

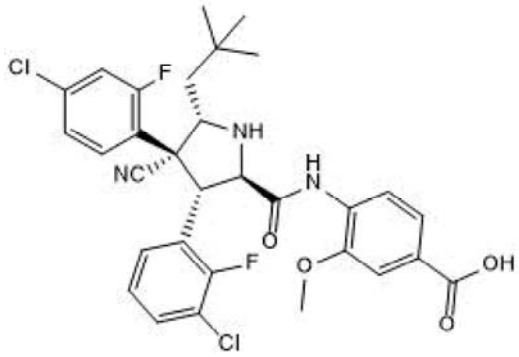
Batch Molecular Weight: 616.49

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.4	4.74	6.82
Found	60.23	4.75	6.82

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Product Information

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Description:

Idasanutlin is a potent MDM2 inhibitor (IC_{50} = 6 nM in binding assay, and 30 nM in cancer cell proliferation assay). Induces p53 stabilisation, cell cycle arrest and apoptosis in cancer cells expressing wildtype p53. Displays inhibition of tumor growth in the SJSA1 tumor xenograft model. Also inhibits MDR-1 at high concentrations.

Physical and Chemical Properties:

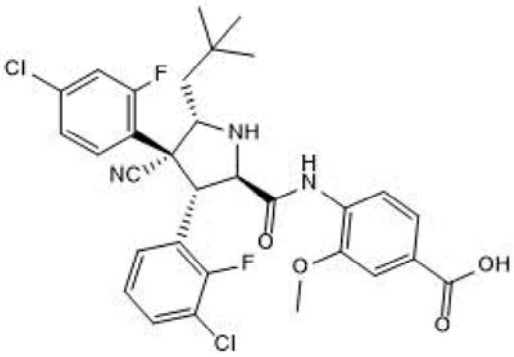
Batch Molecular Formula: $C_{31}H_{29}Cl_2F_2N_3O_4$

Batch Molecular Weight: 616.49

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

References:

Chen *et al* (2014) Structurally diverse MDM2-p53 antagonists act as modulators of MDR-1 function in neuroblastoma. Br.J.Cancer. ***111*** 716. PMID: 24921920.

Ding *et al* (2013) Discovery of RG7388, a potent and selective p53-MDM2 inhibitor in clinical development. J.Med.Chem. ***56*** 5979. PMID: 23808545.