

Product Name: AMG 510

Catalog No.: 7713

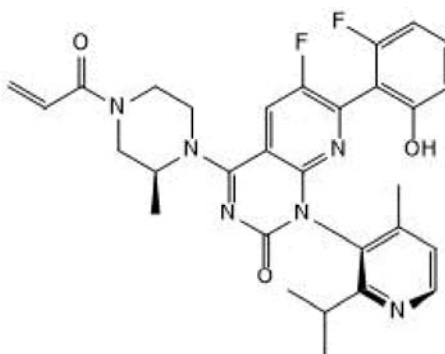
Batch No.: 1

CAS Number: 2252403-56-6

IUPAC Name: (1*R*)-6-Fluoro-7-(2-fluoro-6-hydroxyphenyl)-1-[4-methyl-2-(1-methylethyl)-3-pyridinyl]-4-[(2*S*)-2-methyl-4-(1-oxo-2-propen-1-yl)-1-piperazinyl]pyrido[2,3-*d*]pyrimidin-2(1*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₀ H ₃₀ F ₂ N ₆ O ₃ .
Batch Molecular Weight:	560.6
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.3% purity
Chiral HPLC:	Shows 100.0% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	64.28	5.39	14.99
Found	63.86	5.39	14.81

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

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Description:

AMG 510 is a potent and selective covalent KRAS^{G12C} inhibitor (IC₅₀ = 90 nM). Also a potent inhibitor of phospho-ERK (IC₅₀ = 68 nM). In an in vivo model of non-small cell lung cancer, AMG 510 causes regression of tumors, an increase in T-cell recruitment and a pro-inflammatory tumor microenvironment. Synergises with MEK inhibitors and Carboplatin (Cat. No. 2626) and is orally bioavailable.

Physical and Chemical Properties:

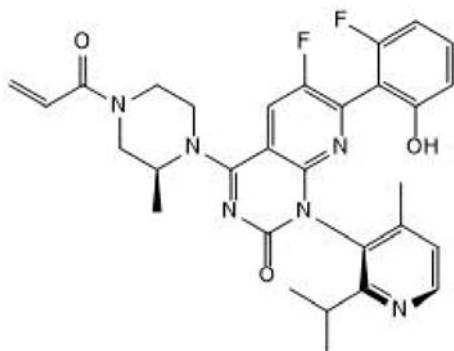
Batch Molecular Formula: C₃₀H₃₀F₂N₆O₃.

Batch Molecular Weight: 560.6

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Lanman *et al* (2020) Discovery of a covalent inhibitor of KRAS^{G12C} (AMG 510) for the treatment of solid tumors. *J.Med.Chem.* **63** 52. PMID: 31820981.

Canon *et al* (2019) The clinical KRAS(G12C) inhibitor AMG 510 drives anti-tumour immunity. *Nature* **575** 217. PMID: 31666701.

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.

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