PRODUCT INFORMATION

AZ 5104
Item No. 17994

CAS Registry No.: 1421373-98-9
Formal Name: N-[2-[[2-(dimethylamino)ethyl]methylamino]-5-[[4-(1H-indol-3-yl)-2-pyrimidinyl]amino]-4-methoxyphenyl]-2-propenamide

MF: C27H31N7O2
FW: 485.6
Purity: ≥98%
UV/Vis.: λ_{max} = 277, 313 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

AZ 5104 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZ 5104 in the solvent of choice. AZ 5104 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of AZ 5104 in these solvents is approximately 30 mg/ml.

AZ 5104 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AZ 5104 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. AZ 5104 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AZ 5104 is an active, demethylated metabolite of AZD 9291 (Item No. 16237), an irreversible inhibitor of EGFR-sensitizing and T790M resistance mutations (IC_{50} = 15-17 nM) that spares the wild-type form of the receptor (IC_{50} = 480 nM).^{1,3} AZ 5104 displays a similar overall activity profile as the parent compound.^{2,3}

References