PRODUCT INFORMATION

TAS 120
Item No. 21136

CAS Registry No.: 1448169-71-8
Formal Name: 1-[(3S)-3-[4-amino-3-[2-(3,5-
dimethoxyphenyl)ethynyl]-1H-
pyrazolo[3,4-d]pyrimidin-1-yl]-1-
pyrrolidinyl]-2-propen-1-one
MF: C_{22}H_{22}N_{6}O_{3}
FW: 418.5
Purity: ≥ 98%
UV/Vis.: λ_{max} 210, 301 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

TAS 120 is supplied as a crystalline solid. A stock solution may be made by dissolving the TAS 120 in the solvent of choice. TAS 120 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of TAS 120 in ethanol and DMSO is approximately 1 mg/ml and approximately 30 mg/ml in DMF.

TAS 120 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TAS 120 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. TAS 120 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

TAS 120 is an orally bioavailable inhibitor of fibroblast growth factor receptors (FGFRs) that irreversibly inhibits all four FGFR subtypes at nanomolar concentrations.\(^1\) It prevents phosphorylation of FGFRs and impedes downstream signaling pathways in cells.\(^1\) TAS 120 blocks the proliferation of human cancer cell lines with FGFR gene abnormalities but does not alter the growth of cell lines with wild-type FGFR.\(^1\) It inhibits FGFR phosphorylation in tumors and tumor growth in human xenograft mouse models in a dose-dependent manner.\(^1\)

Reference