GNE-495
Item No. 21808

CAS Registry No.: 1449277-10-4
Formal Name: 8-amino-N-[1-(cyclopropylcarbonyl)-3-azetidinyl]-2-(3-fluorophenyl)-1,7-naphthyridine-5-carboxamide
MF: C_{22}H_{20}FN_{5}O_{2}
FW: 405.4
Purity: ≥98%
UV/Vis.: λ_{max}: 277, 343 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

GNE-495 is supplied as a crystalline solid. A stock solution may be made by dissolving the GNE-495 in the solvent of choice. GNE-495 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of GNE-495 in these solvents is approximately 5 mg/ml. GNE-495 is also slightly soluble in ethanol.

GNE-495 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GNE-495 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. GNE-495 has a solubility of approximately 0.125 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

GNE-495 is an orally bioavailable, potent, and selective MAP4K4 inhibitor (IC_{50} = 3.7 nM). In cell sprouting assays, it increases the number of protrusions. In a mouse model of oxygen-induced retinopathy, GNE-495 normalizes the percentage of pathological vessels and hemorrhagic areas.

References