**PRODUCT INFORMATION**

**GNE-477**  
Item No. 27977

**CAS Registry No.:** 1032754-81-6  
**Formal Name:** 5-[[7-methyl-6-[[4-(methylsulfonyl)-1-piperazinyl]methyl]-4-(4-morpholinyl)thieno[3,2-d]pyrimidin-2-yl]-2-pyrimidinamine

**MF:** C\textsubscript{21}H\textsubscript{28}N\textsubscript{8}O\textsubscript{3}S\textsubscript{2}  
**FW:** 504.6  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years

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

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**Laboratory Procedures**

GNE-477 is supplied as a solid. A stock solution may be made by dissolving the GNE-477 in the solvent of choice. GNE-477 is soluble in the organic solvent DMSO, which should be purged with an inert gas.

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**Description**

GNE-477 is a dual inhibitor of PI3K (IC\textsubscript{50} = 4 nM for PI3Kα) and mTOR (apparent K\textsubscript{i} = 21 nM).\textsuperscript{1} It inhibits proliferation of MCF-7.1 cells with an EC\textsubscript{50} value of 143 nM. It reduces tumor growth in a PC3-NCI tumor xenograft model when administered at doses ranging from 1 to 20 mg/kg per day.

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**Reference**