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## Product Data Sheet

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Product Name: GNE-490  
Cat. No.: GC68429

### Chemical Properties

Cas. No. 1033739-92-2

Formula  $C_{18}H_{22}N_6O_2S$  M.Wt 386.47

Solubility DMSO :  $\geq 100$  mg/mL (258.75 mM) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

GNE-490, a (thienopyrimidin-2-yl)aminopyrimidine, is a potent pan-**PI3K** inhibitor with **IC<sub>50</sub>**s of 3.5 nM, 25 nM, 5.2 nM, 15 nM for PI3K $\alpha$ , PI3K $\beta$ , PI3K $\delta$  and PI3K $\gamma$ , respectively. GNE-490 has >200 fold selectivity for mTOR (IC<sub>50</sub>=750 nM). GNE-490 shows potent suppression efficacy profile against MCF7.1 breast cancer xenograft model<sup>[1]</sup>.

[1]. Daniel P Sutherlin, et al. Discovery of (thienopyrimidin-2-yl)aminopyrimidines as potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitors for the treatment of cancer. J Med Chem. 2010 Feb 11;53(3):1086-97.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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