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## Product Data Sheet

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Product Name: S14161  
Cat. No.: GC18852

### Chemical Properties

Cas. No. 883046-50-2

Chemical Name 8-ethoxy-2-(4-fluorophenyl)-3-nitro-2H-1-benzopyran

SMILES FC(C=C1)=CC=C1C2C([N+](=O)=O)=CC3=CC=CC(OCC)=C3O2

Formula C<sub>17</sub>H<sub>14</sub>FNO<sub>4</sub> M.Wt 315.3

Solubility Soluble in DMSO Storage Store at -20°C

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

D-Cyclins regulate the cell cycle by acting in a complex with cyclin dependent kinases (CDKs) to promote phosphorylation of the retinoblastoma protein and initiate cellular progression from the G1 to the S phase. Cell cycle deregulation in many cancers often results from altered cyclin D/CDK activity. S14161 is a small molecule inhibitor of cyclins D1-D3 expression that inhibits phosphoinositide 3-kinase activity and arrests cells at the G0/G1 phase in a dose-dependent manner (concentrations tested from 5-10 µM). S14161 induces apoptosis in myeloma and leukemia cell lines (IC50s 25 µM). In a mouse model of leukemia, S14161 delayed tumor growth by up to 90% compared to controls at a dose of 100 mg/kg/day.

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

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