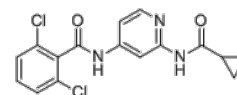


**Product Name** : GDC-046  
**Cat. No.** : PC-38049  
**CAS No.** : 1258292-64-6  
**Molecular Formula** : C<sub>16</sub>H<sub>13</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 350.199  
**Target** : JAK  
**Solubility** : 10 mM in DMSO



### Biological Activity

GDC-046 is a potent, selective, and orally bioavailable inhibitor of **TYK2** with  $K_i$  of 4.8, 0.7, 0.7, and 0.4 nM for TYK2, JAK1, JAK2, and JAK3, respectively.

GDC-046 demonstrates reasonable potency in blocking the IL-12 pathway (IL-12 pSTAT4 EC<sub>50</sub>=380 nM) in cell based assays.

GDC-046 also displays less activity in the EPO (JAK2) pathway (EPO pSTAT5 EC<sub>50</sub>=1700 nM), and IL-6 (JAK1) pathway (IL-6 pSTAT3 EC<sub>50</sub>=2000 nM).

GDC-046 shows statistically significant knockdown of cytokine interferon- $\gamma$  (IFN $\gamma$ ), in a mouse IL-12 PK/PD model.

### References

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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