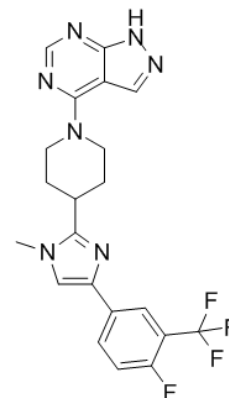


**Product Name** : LY2584702  
**Cat. No.** : PC-43058  
**CAS No.** : 1082949-67-4  
**Molecular Formula** : C<sub>21</sub>H<sub>19</sub>F<sub>4</sub>N<sub>7</sub>  
**Molecular Weight** : 445.4161  
**Target** : Ribosomal S6 Kinase (RSK)  
**Solubility** : DMSO: ≥ 4.5 mg/mL



## Biological Activity

LY2584702 is a potent, selective, ATP-competitive inhibitor of P70 S6 kinase-1 (**p70S6K1**) with IC<sub>50</sub> of 4 nM. LY2584702 blocks phosphorylation of p70S6K in primary rat hepatocytes without affecting the phosphorylation of other signaling kinases, including GSK-3β and ERK1/2. LY2584702 inhibits phosphorylation of p70S6K in HCT116 colon cancer cells with IC<sub>50</sub> of 0.1-0.24 μM, demonstrates significant antitumor efficacy in both U87MG glioblastoma and HCT116 colon carcinoma xenograft models.

## References

- Estridge TB, et al. *J Pharmacol Exp Ther*. 2017 Jul;362(1):108-118.  
 Tolcher A, et al. *Eur J Cancer*. 2014 Mar;50(5):867-75.  
 Hollebecque A, et al. *Eur J Cancer*. 2014 Mar;50(5):876-84.

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

E-mail: tech@probechem.com