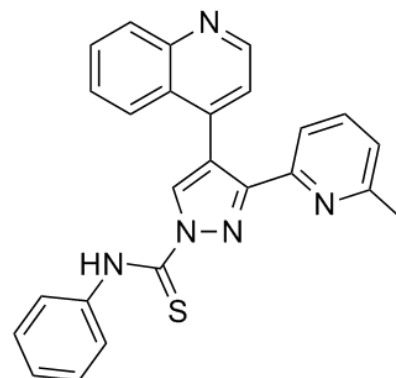


**Product Name** : A 83-01  
**Cat. No.** : PC-42582  
**CAS No.** : 909910-43-6  
**Molecular Formula** : C<sub>25</sub>H<sub>19</sub>N<sub>5</sub>S  
**Molecular Weight** : 421.5168  
**Target** : TGF beta Receptor (TGFBR)  
**Solubility** : 10 mM in DMSO



### Biological Activity

A 83-01 is a potent, selective **TGF-beta type I receptor** ALK-5, ALK-4 and ALK-7 inhibitor with IC<sub>50</sub> of 12, 45 and 7.5 nM, respectively.

A 83-01 displays weak or no inhibitory activity against transcriptional activity of ALK6 and ALK1/2/3.

A 83-01 prevents phosphorylation of Smad2/3 and the growth inhibition induced by TGF-beta with no effects on BMP signaling, ERK and p38 MAPK.

### References

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Yamamura S, et al. *Int J Cancer.* 2012 Jan 1;130(1):20-8.

Minowa T, et al. *Br J Cancer.* 2009 Dec 1;101(11):1884-90.

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

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