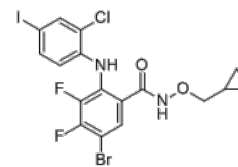


**Product Name** : PD184161  
**Cat. No.** : PC-60589  
**CAS No.** : 212631-67-9  
**Molecular Formula** : C<sub>17</sub>H<sub>13</sub>BrClF<sub>2</sub>IN<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 557.6  
**Target** : MEK (MAP2K)  
**Solubility** : 10 mM in DMSO



## Biological Activity

PD184161 is a potent, orally-active **MEK1/2** inhibitor with IC<sub>50</sub> of 10-100 nM.

PD184161 inhibits HCC cell proliferation and induced apoptosis at concentrations of > or = 1.0 uM, significantly suppresses tumor engraftment and initial growth in tumor xenografts.

PD184161 also blocks AngII-driven HIF-1α protein in vascular smooth muscle cells, increases HIF-1α binding to von Hippel-Lindau tumor suppressor protein, blocks mitochondrial ROS production and cellular ATP levels.

## References

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Mazharian A, et al. *Exp Hematol*. 2009 Oct;37(10):1238-1249.e5.

Jalouli M, et al. *Mol Pharmacol*. 2017 Nov;92(5):510-518.

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

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