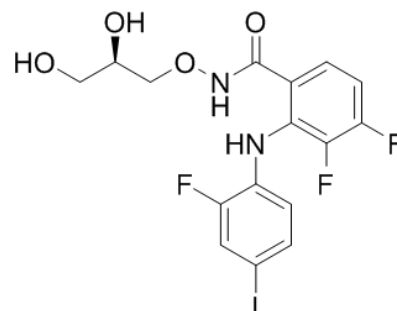


**Product Name** : PD0325901  
**Cat. No.** : PC-42489  
**CAS No.** : 391210-10-9  
**Molecular Formula** : C<sub>16</sub>H<sub>14</sub>F<sub>3</sub>IN<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 482.1931  
**Target** : MEK (MAP2K)  
**Solubility** : DMSO: ≥ 56 mg/mL



## Biological Activity

PD0325901 is a selective, non ATP-competitive **MEK** inhibitor with IC<sub>50</sub> of 0.33 nM.

PD0325901 markedly inhibits ERK phosphorylation and growth of both BRAF mutant and wild-type melanoma cell lines with IC<sub>50</sub> in the nanomolar range.

PD0325901 significantly reduces the growth of papillary thyroid carcinoma cells in vitro and in vivo; orally active.

## References

Barrett SD, et al. *Bioorg Med Chem Lett*. 2008 Dec 15;18(24):6501-4.

Ciuffreda L, et al. *Neoplasia*. 2009 Aug;11(8):720-31.

Henderson YC, et al. *Mol Cancer Ther*. 2010 Jul;9(7):1968-76.

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

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