



LKT Laboratories, Inc.

PD-325901

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## Product Information

Product ID P1202

CAS No. 391210-10-9

### Chemical Name

Synonym PD0325901

Formula  $C_{16}H_{14}F_3IN_2O_4$

Formula Wt. 482.19

### Melting Point

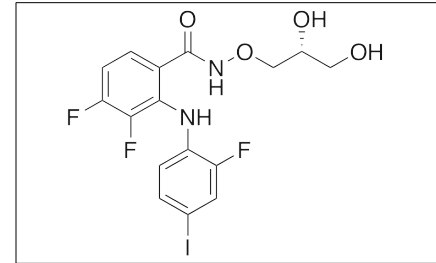
Purity  $\geq 98\%$

Solubility Soluble in DMSO at 12 mg/mL;  
soluble in ethanol at 6.3  
mg/mL with slight warming;  
very poorly soluble in water

Store Temp Ambient

Ship Temp Ambient

**Description** PD-325901 is an anticancer chemotherapeutic MEK1/2 and Raf inhibitor that is particularly effective against cancers harboring B-Raf or Ras mutations such as V600E. PD-325901 decreases levels of phosphorylated ERK1/2, cyclin D1, and thymidine kinase 1. PD-325901 also induces cell cycle arrest at the G0/G1 phase, inhibiting proliferation in thyroid cancer cell lines. In vivo, this compound decreases tumor growth and size. Additionally, PD-325901 displays antiviral benefit, synergizing with other treatments in cellular models of influenza infection.



**Bulk quantities available upon request**

Product ID	Size
P1202	5 mg
P1202	25 mg
P1202	100 mg

**References** Haasbach E, Hartmayer C, Planz O. Combination of MEK inhibitors and oseltamivir leads to synergistic antiviral effects after influenza A virus infection in vitro. *Antiviral Res.* 2013 May;98(2):319-24. PMID: 23523553.

Leyton J, Smith G, Lees M, et al. Noninvasive imaging of cell proliferation following mitogenic extracellular kinase inhibition by PD0325901. *Mol Cancer Ther.* 2008 Sep;7(9):3112-21. PMID: 18790789.

Liu D, Xing M. Potent inhibition of thyroid cancer cells by the MEK inhibitor PD0325901 and its potentiation by suppression of the PI3K and NF-kappaB pathways. *Thyroid.* 2008 Aug;18(8):853-64. PMID: 18651802.

Brown AP, Carlson TC, Loi CM, et al. Pharmacodynamic and toxicokinetic evaluation of the novel MEK inhibitor, PD0325901, in the rat following oral and intravenous administration. *Cancer Chemother Pharmacol.* 2007 Apr;59(5):671-9. PMID: 16944149.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.