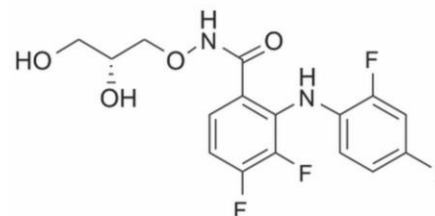


# PD0325901

Catalog Number: ST10009



Size	10 mg
Description	PD0325901 is a small molecule targeting mitogen-activated protein kinase (MAPK/ERK kinase or MEK) with potential antineoplastic activity. PD0325901, a derivative of MEK inhibitor CI-1040, selectively binds to and inhibits MEK, which may result in the inhibition of the phosphorylation and activation of MAPK/ERK and the inhibition of tumor cell proliferation. PD0325901 has been shown to increase the efficiency of reprogramming human primary fibroblasts into induced pluripotent stem cells.
Molecular Weight	482.19
Molecular Formula	C <sub>16</sub> H <sub>14</sub> F <sub>3</sub> IN <sub>2</sub> O <sub>4</sub>
Chemical Name	N-[(2R)-2,3-dihydroxypropoxy]-3,4-difluoro-2-(2-fluoro-4-iodoanilino)benzamide
CAS Number	391210-10-9
PubChem Identifier	9826528
Appearance	Off-white solid
Purity	>99% by HPLC
Solubility	Soluble in DMSO at 25 mM
Reconstitution	For a 10 mM concentrated stock solution of PD0325901, reconstitute the compound by adding 2.07 mL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 40°C for 2 to 5 minutes. For use in cell culture, warm the medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 μM low-protein binding filter.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	Barrett, S.D., et al. (2008) The discovery of the benzhydroxamate MEK inhibitors CI-1040 and PD 0325901. <i>Bioorg Med Chem Lett</i> 18: 6501-6504. PMID: 18952427. Lin, T., et al. (2009) A chemical platform for improved induction of human iPSCs. <i>Nat Methods</i> 6: 805-808. PMID: 19838168. Sebolt-Leopold, J.S., et al. (2004) Targeting the mitogen-activated protein kinase cascade to treat cancer. <i>Nat Rev Cancer</i> 4: 937-947. PMID 15573115.

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