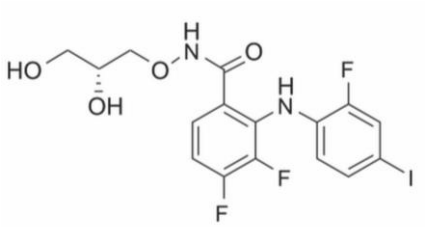
TECHNICAL DATA SHEET

PD0325901

Catalog Number: ST10010



Size	415 µL
Concentration	10 mM in DMSO
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	$C_{16}H_{14}F_3IN_2O_4$
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	Colorless liquid
Purity	>99% by HPLC
Formulation	2 mg PD0325901 in 415 µL of DMSO, filter sterilized
Recommended Usage	Aliquoting the stock solution is recommended to avoid repetitive freeze-thaw cycles. For use in cell culture, media should be warmed prior to adding the reconstituted compound. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Store at -20°C. Stable for 6 months when stored as directed. Avoid repeated freeze-thaw cycles.
References	Barrett, S.D., et al. (2008) The discovery of the benzhydroxamate MEK inhibitors CI-1040 and PD 0325901. Bioorg Med Chem Lett 18: 6501-6504. PMID: 18952427. Lin, T., et al. (2009) A chemical platform for improved induction of human iPSCs. Nat Methods 6: 805-808. PMID: 19838168. Sebolt-Leopold, J.S., et al. (2004) Targeting the mitogen-activated protein kinase cascade to treat cancer. Nat Rev Cancer 4: 937-947. PMID 15573115.

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