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_{16}H_{14}F_{3}IN_{2}O_{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 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

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