



Catalog Number:	MC11079	Product Type:	Small Molecule
Bio-Activity:	MEK inhibitor	CAS #:	391210-10-9
Research Categories:	Stem cells, cancer	Chemical Name:	N-[(2R)-2,3-Dihydroxypropoxy]-3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]-benzamide
Solubility:	Soluble in DMSO (up to 12 mg/ml)	Molecular Formula:	C16H14F3IN2O4
Purity:	> 98%	Molecular Weight:	482.20
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

A selective non-ATP competitive MEK inhibitor (IC₅₀ = 0.33 nM) [1]. Inhibits growth and/or proliferation of a variety of cancer cells [2]. Enhances self-renewal of embryonic stem cells [3]. In combination with vitamin C, synergistically induces hypomethylation of mouse embryonic stem cells [4]. In combination with CHIR-99021 and A83-01 induces generation of ground state iPS cells from human and rat somatic cells [5].

References:

- 1) SD Barrett et al. Bioorg. Med. Chem. Lett. 2008 18:6501
- 2) L Ciuffreda et al. Neoplasia 2009 11:720
- 3) Z Ai et al. Stem Cells Int. 2016 2016:1792573
- 4) C Li et al. Oncotarget 2016 7:39730
- 5) W Li et al. Cell Stem Cell 2009 4:16

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