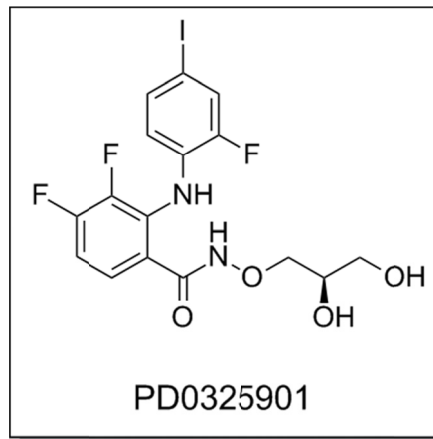




## Product Specification Sheet

<b>Product Name:</b>	PD0325901
<b>Catalog Number:</b>	C7303-2 (powder) C7303-2s (10 mM in DMSO)
<b>Package Size:</b>	2 mg
<b>Technical information:</b>	
Chemical Formula:	C <sub>16</sub> H <sub>14</sub> F <sub>3</sub> IN <sub>2</sub> O <sub>4</sub>
CAS #:	391210-10-9
Molecular Weight:	482.19
Purity:	>98%
Formulation:	Off white solid
Solubility:	Soluble in DMSO up to 50 mM
Chemical Name:	N-[(2R)-2,3-Dihydroxypropoxy]-3,4-difluoro-2-[(2-fluoro-4-iodophenyl)amino]-benzamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
<b>Handling:</b>	<ul style="list-style-type: none"><li>For C7303-2 (powder), add 415 uL of DMSO to make 10 mM solution.</li><li>For C7303-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.</li></ul>
<b>Biological Activity:</b>	PD0325901 is the selective inhibitor of mitogen activated protein kinase kinase (MEK or MAPKK) with IC <sub>50</sub> about 1nM against activated MEK1 and MEK2. Its potency, solubility and effectiveness are all much better than CI-1040. Anticancer activity of PD0325901 has been demonstrated for a broad spectrum of human tumor xenografts. When using with GSK-3β inhibitor CHIR99021, PD0325901 could prevent cell differentiation and sustain ES cell self-renewal.
<b>Reference:</b>	<ol style="list-style-type: none"><li>Barrett, S.D., et al. The discovery of the benzhydroxamate MEK inhibitors CI-1040 and PD 0325901. <i>Bioorg. Med. Chem. Lett.</i> (2008), 18: 6501-6504.</li><li>Judith S. Sebolt-Leopold et al. The biological profile of PD 0325901: A second generation analog of CI-1040 with improved pharmaceutical potential. <i>Proc Amer Assoc Cancer Res</i>, Volume 45, 2004.</li><li>Tongxiang Lin, et al. A chemical platform for improved induction of human iPSCs. <i>Nature Methods</i> 6, 805 - 808 (2009)</li></ol>



For Technical Support: [technical@cellagentech.com](mailto:technical@cellagentech.com)

*For research use only, not for clinical or diagnostic use.*