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**Product Data Sheet**

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Product Name: AGN 194078

Cat. No.: GC33315

**Chemical Properties**

Cas. No. 321995-62-4

SMILES O=C(O)C1=C(F)C=C(NC(C2=C(O)C=C3C(C)(C)CCC(C)(C)C3=C2)=O)C=C1FFormula C22H23F2NO4 M.Wt 403.42

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

AGN 194078 is a selective RAR $\alpha$  agonist with a K<sub>d</sub> and EC<sub>50</sub> of 3 and 112 nM, respectively.

AGN 194078 is a selective RAR $\alpha$  agonist and binds to RAR $\alpha$  with very high affinity, having a K<sub>d</sub> value of 3 nM, while being unable to bind to RAR $\beta$  and binding only very weakly (K<sub>d</sub>=5600 nM) to RAR $\gamma$ . Furthermore, AGN 194078 maintains full transcriptional activity through RAR $\alpha$ , with an EC<sub>50</sub> value of 112 nM, but only activated RAR $\beta$  and RAR $\gamma$  with about 10% efficacy at the highest dose (1000 nM) tested[1].

[1]. Beard RL, et al. Synthesis and biological activity of retinoic acid receptor-alpha specific amides. Bioorg Med Chem Lett. 2002 Nov 4;12(21):3145-8.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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