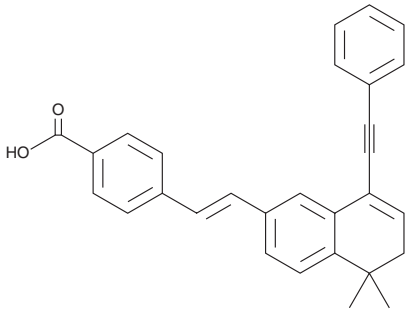
PRODUCT INFORMATION

BMS 493

Item No. 17418

CAS Registry No.:	215030-90-3
Formal Name:	4-[(1E)-2-[5,6-dihydro-5,5-dimethyl-8-(2-phenylethynyl)-2-naphthalenyl] ethenyl]-benzoic acid
Synonym:	BMS 204493
MF:	$C_{29}H_{24}O_2$
FW:	404.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 239, 297, 328 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BMS 493 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS 493 in the solvent of choice. BMS 493 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BMS 493 in these solvents is approximately 25 and 30 mg/ml, respectively.

BMS 493 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS 493 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BMS 493 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Nuclear retinoic acid receptors (RARs) are transcriptional regulators with roles in cell proliferation and differentiation.[1,2] BMS 493 is a pan-RAR inverse agonist that blocks RARα activity with an IC_{50} value of 114 nM.[3,4] In all RAR types (RARα, RARβ, and RARγ), BMS 493 prevents the recruitment of transcriptional coactivators to RARs while stabilizing corepressor interactions.[5,6] BMS 493 has been used to elucidate the critical roles of RARs in development and immune response.[3,7-9]

References

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