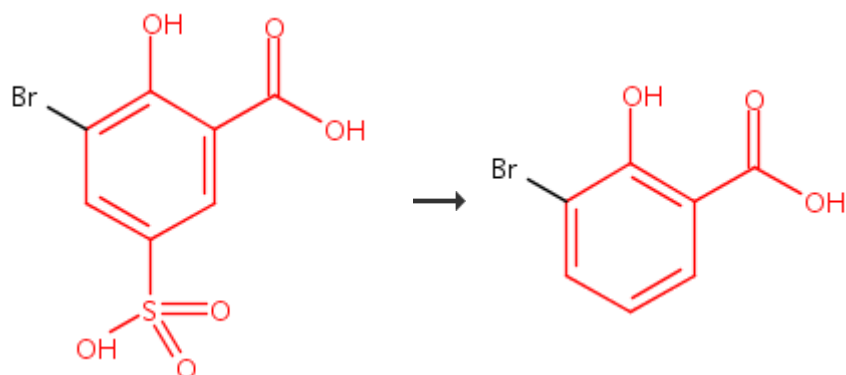


1. Single Step

71%

[Overview](#)**Steps/Stages**1.1 R:H₂SO₄, S:H₂O, 5 min, rt → 170°C; 25 min, 170-172°C**Notes**

thermal, key intermediate, microwave irradiation (400W), Reactants: 1, Reagents: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

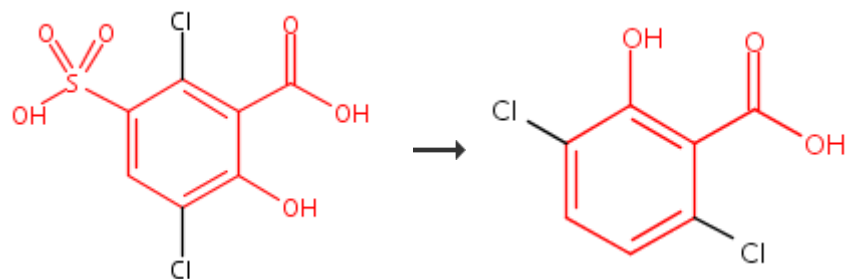
References

[Synthesis, structure elucidation, DNA-PK and PI3K and anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines](#)

By Morrison, Rick et al

From European Journal of Medicinal Chemistry, 110, 326-339; 2016

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3. Single Step

100%

[Overview](#)**Steps/Stages****Notes**

1.1 R:NaOH, S:H₂O, rt → 120°C; 2 h, 120°C

1.2 R:HCl, S:H₂O, pH 1

alternative reaction conditions gave lower yield, Reactants: 1, Reagents: 2, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

[Method for preparing dicamba](#)

By Sun, Guoqing et al

From Faming Zhuanli Shenqing, 102838483, 26 Dec 2012

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