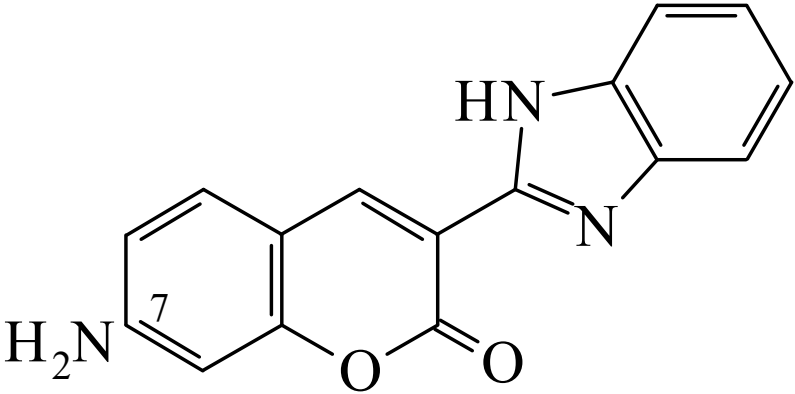




--Entry Name: 7-Amino-3-(1*H*-benzimidazol-2-yl)-2*H*-1-benzopyran-2-one
Synonym(s): 7-Amino-3-(2-benzimidazolyl)coumarin



Molecular Formula: C₁₇H₁₀N₂O₂
Molecular Weight: 277.282
Accurate Mass: 277.085127
Percentage Composition: C 69.31%; H 4.00%; N 15.15%; O 11.54%
Physical Description: Yellow cryst. (DMF)
Melting Point: Mp 320-325°

-- Derivative: N',N'-Di-Et
Synonym(s): Coumarin 7, Coumarin 535

CAS Registry Number: 27425-55-4
Molecular Formula: C₂₀H₁₆N₂O₂
Molecular Weight: 333.389
Accurate Mass: 333.147727
Percentage Composition: C 72.05%; H 5.74%; N 12.60%; O 9.60%
Use/Importance: Laser dye
Physical Description: Brown cryst. (PhCl/C₆H₆)
Melting Point: Mp 232-234°
Aldrich: 41654-1
Rare Chemicals Library: S27193-4
Sigma: C3086

-- Derivative: N',N'-Di-Et, N''-Me
Synonym(s): 7-(Diethylamino)-3-(1-methyl-1*H*-benzimidazol-2-yl)coumarin, Coumarin 30, Coumarin 515

CAS Registry Number: 41044-12-6
Molecular Formula: C₂₃H₁₉N₃O₂
Molecular Weight: 347.416
Accurate Mass: 347.163377
Percentage Composition: C 72.60%; H 6.09%; N 12.10%; O 9.21%
Use/Importance: Laser dye
Physical Description: Yellow cryst. (C₆H₆)
Melting Point: Mp 213-214°
Rare Chemicals Library: S27192-6

References:
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Japan. Pat., 1973, 73 80 122; *C.A.*, **80**, 84703u, (*synth*)
Park, S.M. *et al.*, *J. Electroanal. Chem. Interfacial Electrochem.*, 1977, 77, 137, (*prop*)
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