



>>Entry Name: Dansylproline

Synonym(s): 1-[[5-(Dimethylamino)-1-naphthalenyl]sulfonyl]proline, 9Cl

Molecular Formula: C₁₇H₂₀N₂O₄S

Molecular Weight: 348.422

Accurate Mass: 348.114378

Percentage Composition: C 58.60%; H 5.79%; N 8.04%; O 18.37%; S 9.20%

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 1239-94-7

Molecular Formula: C₁₇H₂₀N₂O₄S

Molecular Weight: 348.422

Accurate Mass: 348.114378

Percentage Composition: C 58.60%; H 5.79%; N 8.04%; O 18.37%; S 9.20%

Source/Synthesis: Derived from proline *N*-terminal peptides and proteins following *N*-terminal labelling with 5-(Dimethylamino)-1-naphthalenesulfonyl chloride [FNS92-C](#) and hydrolysis

Use/Importance: Fluorescent dye. Reagent for the resolution of enantiomeric amines

Physical Description: Yellow powder

Sigma: D1875

>>Derivative: Cyclohexylamine salt (1:1)

CAS Registry Number: 42808-11-7

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 196-199 dec.°

References:

Schoellmann, G., *Hoppe Seyler's Z. Physiol. Chem.*, 1967, **348**, 1629, (*synth*)

Seiler, N. *et al.*, *Anal. Biochem.*, 1971, **44**, 451, (*ms*)

Chimiak, A. *et al.*, *Org. Prep. Proced. Int.*, 1973, **5**, 117-124, (*synth*)

Gamoh, K. *et al.*, *Anal. Chim. Acta*, 1991, **243**, 251, (*use*)