



>>Entry Name: Dansylisoleucine

Synonym(s): *N*-[[5-(Dimethylamino)-1-naphthalenyl]sulfonyl]isoleucine, 9CI

Molecular Formula: C₁₈H₂₄N₂O₄S

Molecular Weight: 364.465

Accurate Mass: 364.145678

Percentage Composition: C 59.32%; H 6.64%; N 7.69%; O 17.56%; S 8.80%

>>Variant: L-form

CAS Registry Number: 1100-21-6

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Accurate Mass: 364.145678

Percentage Composition: C 59.32%; H 6.64%; N 7.69%; O 17.56%; S 8.80%

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

>>Derivative: Cyclohexylamine salt

CAS Registry Number: 53369-40-7

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 173-176°

References:

Seiler, N., *Methods Biochem. Anal.*, 1970, **18**, 259-337, (*rev, detn, props*)

Seiler, N. *et al.*, *Anal. Biochem.*, 1971, **44**, 451-457, (*ms*)

Polonski, T. *et al.*, *Tetrahedron*, 1974, **30**, 641-643, (*synth, uv, ord*)

Bouguerra, M.L., *Ann. Chim. (Paris)*, 1975, **10**, 29-31, (*pmr*)