Catalog # 10-2847

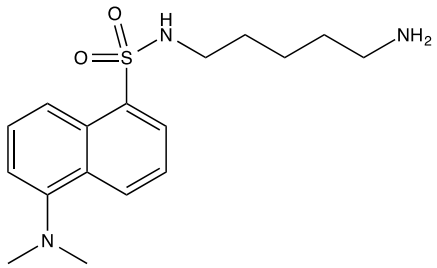
Dansylcadaverine

10121-91-2

N-(5-Amino-pentyl)-5-dimethylaminonaphthalene-1-sulfonamide

Monodansyl cadaverine; MDC

Lot # X106219



MDC preferentially accumulates in autophagic vacuoles due to a combination of ion trapping and specific interactions with membrane lipids making it a very useful probe for monitoring autophagy.[1,2] Inhibits EGF internalization.[3] Competes with certain trans-aminases and can be used with antibody/affinity procedures to isolate resulting conjugates.[4] Abs: 335 nm, Em: 510 nm

1) Munafo and Colombo (2001), *A novel assay to study autophagy: regulation of autophagosome vacuole size by amino acid deprivation*; Int. J.Cell Sci. **114** 3619
2) Jiang *et al*. (2012), *Targeting androgen receptor leads to suppression of prostate cancer via induction of autophagy*; J.Urol. **188** 1361
3) Haigler *et al*. (1980), *Dansylcadaverine inhibits internalization of 125I-epidermal growth factor in BALB 3T3 cells*; J.Biol.Chem. **255** 1239
4) Murthy *et al*. (1994), *Residue Gln-30 of human erythrocyte anion transporter is a prime site for reaction with intrinsic transglutaminase*; J.Biol.Chem. **269** 22907

PHYSICAL DATA

Molecular Weight:	335.46
Molecular Formula:	$C_{17}H_{25}N_3O_2S$
Purity:	>97% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml with warming), methanol (up to 10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or methanol may be stored at -20°C for up to 1 month.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com