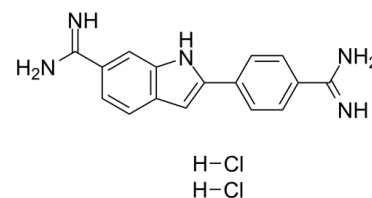


Data Sheet

Product Name:	DAPI (dihydrochloride)
Cat. No.:	CS-6990
CAS No.:	28718-90-3
Molecular Formula:	C ₁₆ H ₁₇ Cl ₂ N ₅
Molecular Weight:	350.25
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : 5 mg/mL (14.28 mM; Need ultrasonic and warming); DMSO : 75 mg/mL (214.13 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

DAPI dihydrochloride (4',6-diamidino-2-phenylindole) is a fluorescent stain by binding in the minor groove of A-T rich sequences of DNA. **In Vitro:** DAPI (4',6-diamidino-2-phenylindole) is a DNA-specific probe which forms a fluorescent complex by attaching in the minor groove of A-T rich sequences of DNA. It also forms nonfluorescent intercalative complexes with double-stranded nucleic acids. DAPI can be used as a DNA-specific probe for flow cytometry, chromosome staining, DNA visualization and quantitation in histochemistry and biochemistry^[1].

References:

[1]. Kapuscinski J, et al. DAPI: a DNA-specific fluorescent probe. *Biotech Histochem.* 1995 Sep;70(5):220-33.

CAIndexNames:

1H-Indole-6-carboximidamide, 2-[4-(aminoiminomethyl)phenyl]-, hydrochloride (1:2)

SMILES:

N=C(C1=CC2=C(C=C1)C=C(C3=CC=C(C(N)=N)C=C3)N2)N.[H]Cl.[H]Cl

Caution: Product has not been fully validated for medical applications. For research use only.

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