

## **DAPI**

2th Edition (Revised in Mar. 2024)

H-CI

## **Product Information**

**Chemical Name:** 4',6-Diamidino-2-phenylindole

dihydrochloride

**CAS:** 28718-90-3

M.W: 350.25

Formula: C<sub>16</sub>H<sub>15</sub>N<sub>5</sub> · 2HCl

ula. C<sub>16</sub>П<sub>15</sub>N<sub>5</sub> · 2ПС

**Fluorescence:** maximum excitation wavelength λex

340 nm; maximum emission wavelength λem 488 nm (nur DAPI); maximum excitation wavelength λex 364 nm after combination of DAPI and double-stranded DNA; maximum emission wavelength λem 454 nm (DAPI-DNA-Komplex)

Purity: ≥98%

**Solubility:** H2O: 10 mg/mL heat or sonication may be required.

Appearance: Yellow powder

Synonym: 4,6-Diamidino-2-phenylindole dihydrochloride; 2-(4-Amidinophenyl)-6-

indolecarbamidine dihydrochloride; DAPI dihydrochloride

**Description** 

DAPI is a fluorescent probe which is commonly used to stain DNA and chromosomes

for fluorescent microscopy and flow cytometry applications. It forms a fluorescent

complex by attaching in the minor groove of A-T rich sequences of DNA. DAPI is often

used as a counterstain, as its ultraviolet (max 358 nm) excitation and blue (max 461

nm) emission wavelengths separate it nicely from many popular primary

fluorophores. It can be used on either fixed or live cells, although its low permeability

in live cells demands that higher concentrations be used.

**Storage Conditions** 

Store at -20°C and protected from light

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