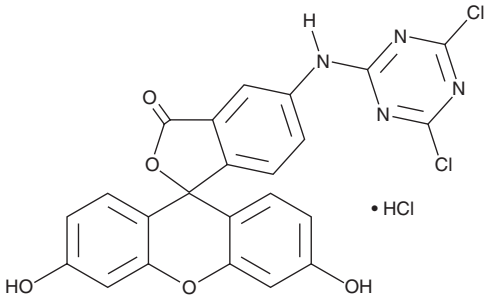
PRODUCT INFORMATION

5-(4,6-Dichloro-s-triazin-2-ylamino)fluorescein (hydrochloride)

Item No. 34080

CAS Registry No.:	21811-74-5
Formal Name:	5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-3′,6′-dihydroxy-spiro[isobenzofuran-1(3H),9′-[9H]xanthen]-3-one, monohydrochloride
Synonyms:	Dichlorotriazinylaminofluorescein, DTAF
MF:	$C_{23}H_{12}Cl_2N_4O_5 \bullet HCl$
FW:	531.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 211, 225, 277 nm
Ex./Em. Max:	492/513 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5-(4,6-Dichloro-s-triazin-2-ylamino)fluorescein (DTAF) (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the DTAF (hydrochloride) in the solvent of choice, which should be purged with an inert gas. DTAF (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of DTAF (hydrochloride) in these solvents is approximately 1 mg/ml.

Description

DTAF is an amine-reactive fluorescent probe for labeling proteins.[1] It displays excitation/emission maxima of 492/513 nm, respectively. DTAF has been conjugated to IgG for use as fluorescent antibodies and as a pre-column or on-column reagent to label amino acids and amino acid-containing compounds.[1-3] It has also been used as a derivatizing agent in the analysis of ephedrine and pseudoephedrine from various sources.[3]

References

1. Bakeslee, D. and Baines, M.G. Immunofluorescence using dichlorotriazinylaminofluorescein (DTAF). I. Preparation and fractionation of labelled IgG. *J. Immunol. Methods* **13(3-4)**, 305-320 (1976).
2. De Boer, S.H. and Wieczorek, A. Production of monoclonal antibodies to *Corynebacterium spedonicum*. *Phytopathology* **74(12)**, 1431-1434 (1984).
3. Wang, W., Li, C., Li, Y., *et al*. Rapid and ultrasensitive determination of ephedrine and pseudoephedrine derivatizated with 5-(4,6-dichloro-s-triazin-2-ylamino) fluorescein by micellar electrokinetic chromatography with laser-induced fluorescence detection. *J. Chromatogr. A.* **1102(1-2)**, 273-279 (2005).

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