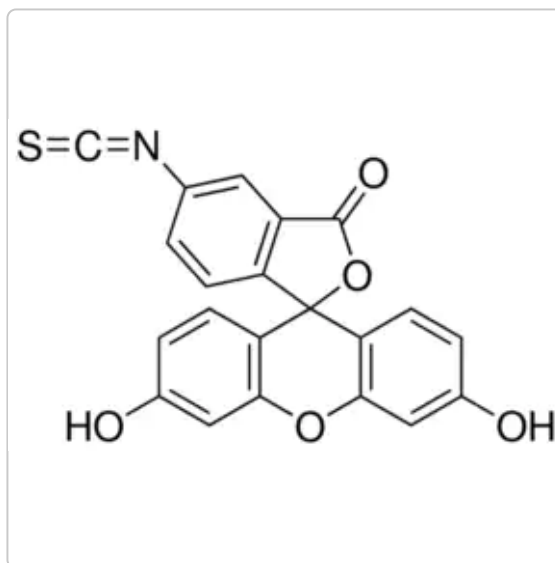


**F7250** ▶ **Sigma-Aldrich**.

Fluorescein isothiocyanate isomer I

★★★★★ (0)

suitable for protein labeling, ≥90% (HPLC), powder

[Toutes les photos \(7\)](#)**Synonyme(s):**

FITC, Fluorescein 5-isothiocyanate

Empirical Formula (Hill Notation):C₂₁H₁₁NO₅S**Numéro CAS:****3326-32-7****Poids moléculaire:**

389.38

Beilstein:

1407295

Numéro EC:**222-042-0****Numéro MDL:****MFCD00005063****ID de substance PubChem:**

24894933

NACRES:

NA.47

Select an Option

Référence

F7250-50MG



50 MG

34,80 €Date d'expédition estimée le 10 octobre 2022 - **De**

—

1

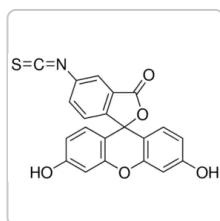
+

Ajouter au panier[Demander une commande en gros](#)

Documents

 [FDS](#) [COO/COA](#) [Fiche des caractéristiques](#)[Plus de documents >>](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

46950**Fluorescein 5(6)-isothiocyanate**

BioReagent, suitable for fluorescence, mixture of 2 components, ≥90% (HPLC)

Consulter le prix et la disponibilité

< 1 of 10 >

PROPRIÉTÉS

Niveau de qualité

200

Essai/Dosage

≥90% (HPLC)

Forme

powder

Pf

>360 °C (lit.)

Solubilité

acetone: 1 mg/mL

Fluorescence

λ_{ex} 492 nm; λ_{em} 518 nm (green)

Adéquation

suitable for protein labeling

application(s)

diagnostic assay manufacturing

hematology

histology

Temp. de stockage

2-8°C

SMILES string

Oc1ccc2c(Oc3cc(O)ccc3C24OC(=O)c5cc(ccc45)N=C=S)c1

InChI

1S/C21H11NO5S/c23-12-2-5-16-18(8-12)26-19-9-13(24)3-6-17(19)21(16)15-4-1-11(22-10-28)7-14(15)20(25)27-21/h1-9,23-24H

InChI key

MHMNJMPURVTYEJ-UHFFFAOYSA-N

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Hematology Stains](#)

[Histology Stains](#)

DESCRIPTION

Description générale

Fluorescein isothiocyanate (FITC) is yellow-orange in color with an absorption maximum at 495nm. Upon excitation, it emits a yellow-green color with an emission maximum at 525nm.

It is widely used to attach a fluorescent label to proteins via the amine group. The isothiocyanate group reacts with amino terminal and primary amines in proteins. It has been used for the labeling of proteins including antibodies and lectins.

Fluorescein isothiocyanate isomer I has been proposed as a contact sensitizer.

Application

Reagent for the FITC labeling of proteins; microsequencing of proteins and peptides (HPLC)

Biological applications include use as a fluorescent labeling reagent for proteins, a fluorescent reagent for protein tracing, and a reagent in the fluorescent antibody technique for the rapid identification of pathogens. It may be employed as the derivatization reagent for amphetamine, methamphetamine, 3,4-methylenedioxymethamphetamine and P-phenylethylamine in human urine during their capillary electrophoretic (CE) determination. It may be used for the preparation of fluorescent antibodies. It was employed for *in vitro* sensitization studies.

Reagent for the FITC labeling of proteins; Microsequencing of proteins and peptides (HPLC)

Conditionnement

50, 100, 250, 500 mg in glass bottle

1, 5 g in glass bottle

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H317 - H334

Conseils de prudence

P261 - P272 - P280 - P284 - P302 + P352 - P333 + P313

Classification des risques

Resp. Sens. 1 - Skin Sens. 1

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US), Eyeshields, Faceshields, Gloves

DOCUMENTATION**Certificat d'analyse**

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Fiche D'informations Produit

[Product Information Sheet - F7250](#)

Plus De Documents

[FT-NMR Spectra](#)

[Plant Reagents](#)

[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

A9771

Albumin-fluorescein isothiocyanate conjugate
protein bovine

[Consulter le prix et la disponibilité](#)

< 1 of 4 >

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

After the FITC (e.g., Product No. F7250) is conjugated to the protein, what is the solution stability of the conjugated protein?

The stability of the conjugated protein will be essentially the stability of the unconjugated protein. Some conjugated proteins might be stable when stored at -20°C and other conjugated proteins will have better solution stability at 2-8°C. If the protein concentration is too low, this also has a negative effect upon the stability of the conjugated protein.

Is Product No. F7250, Fluorescein isothiocyanate isomer I, pharmaceutical grade?

No. The product is considered suitable for research use only.

How stable is FITC Isomer 1 (e.g., Product No. F7250) once conjugated to an antibody?

FITC can photo bleach fairly rapidly. The prepared solution should be stored in a dark container and protected from light. When viewing the antibody staining under a microscope, it is advisable to use subdued fluorescent light when possible. If the fluorescent light stays at one position for too long, photo bleaching is noticeable.

Is the intensity of FITC (e.g., Product No. F7250) pH dependent?

Yes; many articles have reported the pH dependence of the fluorescence of fluorescein derivatives. See the following references: Archives Biochem. Biophys., 133, 263 (1969); J. Immunol., 95, 1165 (1966); Archives Biochem. Biophys., 73, 1 (1958); Standard test for labeling efficiency of FITC with BSA: NCCLS Approved Standard: ASM-1, 2nd ed., June, 1975; Characterization of FITC-dyes by IR and TLC: Analytical Biochem., 29, 526 (1969); Fluorescent labeling of proteins: Proc. Nat. Acad. Sci., 72, 459 (1975); Amer. J. Pathol., 34, 1081 (1958); Fluorescent labeling of a lectin: Meth. Enzymol., 81, 65 (1982).

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Vaccines: Recent Trends and Progress (2012)

Structural mechanisms of acute VEGF effect on microvessel permeability.

Fu BM and Shen S

American Journal of Physiology. Heart and Circulatory Physiology, 284, H2124-H2124 (2003)

Human monoclonal autoantibodies specific for the bullous pemphigoid antigen 1 (BPAg 1).

Peyron E

Journal of Immunology, 153, 1333-1333 (1994)

Test of a two-pathway model for small-solute exchange across the capillary wall.

Fu BM

The American Journal of Physiology, 274, H2062-H2062 (1998)

Chromatographically pure fluorescein and tetramethylrhodamine isothiocyanates.

L C FELTON et al.

Analytical biochemistry, 2, 178-180 (1961-04-01)

[Afficher tous les articles scientifiques apparentés](#)

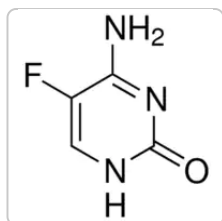
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Sensor Dyes

Nitric oxide (NO) as a signal transporter in neurons, endothelial cells and in the immune system.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

F7129

5-Fluorocytosine

nucleoside analog

[Consulter le prix et la disponibilité](#)

< 1 of 10 >

Évaluations



Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

Contactez notre Service technique

Le contenu de cette page vous a-t-il été utile ?*



Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

Envoyer

© 2022 Merck KGaA, Darmstadt, Allemagne et/ou ses sociétés affiliées. Tous droits réservés.

La reproduction d'une quelconque partie du contenu de ce site est strictement interdite sans autorisation.

[Conditions d'utilisation du site](#) | [Politique de confidentialité](#) | [Conditions générales de vente](#) | [Consentement relatif au copyright](#) | [Paramètres des cookies](#)