



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

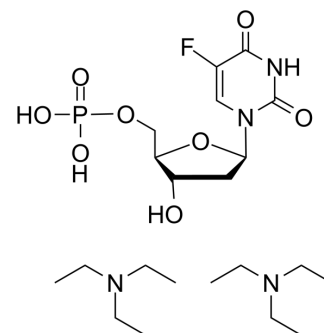
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## FdUMP triethylammonium

**Cat. No.:** HY-154508  
**CAS No.:** 134-46-3  
**Molecular Formula:** C<sub>21</sub>H<sub>42</sub>FN<sub>4</sub>O<sub>8</sub>P  
**Molecular Weight:** 528.55  
**Target:** Nucleoside Antimetabolite/Analog; Thymidylate Synthase  
**Pathway:** Cell Cycle/DNA Damage; Apoptosis  
**Storage:** -20°C, sealed storage, away from moisture  
 \* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (236.50 mM; Need ultrasonic)

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |
|------------------------------|--------------------------|------|-----------|-----------|------------|
|                              |                          |      |           |           |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 1.8920 mL | 9.4598 mL | 18.9197 mL |
|                              | 5 mM                     |      | 0.3784 mL | 1.8920 mL | 3.7839 mL  |
|                              | 10 mM                    |      | 0.1892 mL | 0.9460 mL | 1.8920 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

FdUMP triethylammonium is the intracellular active form of 5-fluorouracil (5-FU). 5-FU is converted to FdUMP after being transported into the cell by various enzymes. FdUMP forms a ternary complex with thymidylate synthase and its cofactor 5,10-methylene tetrahydrofolate, inhibiting the activity of thymidylate synthase, which in turn leads to the suppression of DNA synthesis.

### REFERENCES

[1]. Ghoshal K, Jacob ST. An alternative molecular mechanism of action of 5-fluorouracil, a potent anticancer drug. *Biochem Pharmacol.* 1997;53(11):1569-1575.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA