



# 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) 

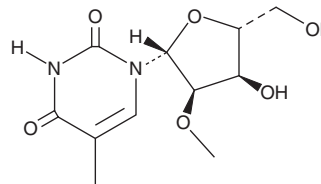
# PRODUCT INFORMATION



## 2'-O-Methyl-5-methyluridine

Item No. 35357

**CAS Registry No.:** 55486-09-4  
**Formal Name:** 5-methyl-2'-O-methyl-uridine  
**Synonyms:** 2'-O-Methylribothymidine, 2'-O-Methylthymidine  
**MF:** C<sub>11</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>  
**FW:** 272.3  
**Purity:** ≥98%  
**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

2'-O-Methyl-5-methyluridine is supplied as a solid. A stock solution may be made by dissolving the 2'-O-methyl-5-methyluridine in the solvent of choice, which should be purged with an inert gas. 2'-O-Methyl-5-methyluridine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 2'-O-methyl-5-methyluridine in these solvents is approximately 10 and 14 mg/ml, respectively. 2'-O-Methyl-5-methyluridine is also slightly soluble in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 2'-O-methyl-5-methyluridine can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 2'-O-methyl-5-methyluridine in PBS (pH 7.2) is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

2'-O-Methyl-5-methyluridine is a modified nucleoside that has been found in tRNA isolated from rabbit liver.<sup>1</sup>

### Reference

1. Gross, H.J., Simsek, M., Raba, M., *et al.* 2'-O-methyl ribothymidine: A component of rabbit liver lysine transfer RNA. *Nucleic Acids Res.* **1(1)**, 35-43 (1974).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/12/2022

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM