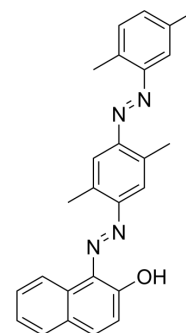


## Oil Red O

Cat. No.:	HY-D1168
CAS No.:	1320-06-5
Molecular Formula:	C <sub>26</sub> H <sub>24</sub> N <sub>4</sub> O
Molecular Weight:	408.49
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 4.17 mg/mL (10.21 mM; ultrasonic and warming and heat to 80°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4480 mL	12.2402 mL	24.4804 mL
	5 mM		0.4896 mL	2.4480 mL	4.8961 mL
	10 mM		0.2448 mL	1.2240 mL	2.4480 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Oil Red O is a fat-soluble diazol dye, with a maximum absorption at 518 nm. Oil Red O stains neutral lipids and cholesteryl esters but not biological membranes. Oil Red O can be used for detecting and quantifying hepatic steatosis in mouse liver biopsies. Oil Red O staining efficiently helps to visualize the radical changes that occur in tissues as metabolic disease occurs and progresses<sup>[1]</sup>.

### CUSTOMER VALIDATION

- J Orthop Surg Res. 2023 Jul 29;18(1):546.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

**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](mailto:tech@MedChemExpress.com)

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