

Perfluoropolyether Cryo Oil

HAMPTON
RESEARCH

Solutions for Crystal Growth

User Guide

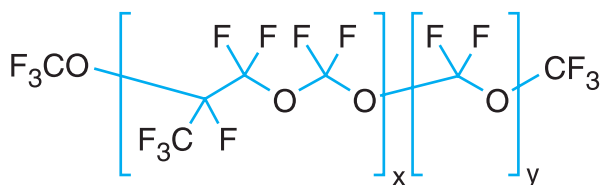
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Application

- Cryoprotectant for macromolecular crystallization.

Suggested Use

Pick up the crystal using a Mounted Cryoloop with as little mother liquid as possible. Dip the mounted crystal into the Perfluoropolyether Cryo Oil. Cryogenically cool the mounted crystal. One can also add a small amount of Perfluoropolyether Cryo Oil to the crystallization drop before mounting the crystal. After adding the Perfluoropolyether Cryo Oil, mount the crystal using a Mounted Cryoloop. Withdraw the mounted crystal from the drop and the Perfluoropolyether Cryo Oil will coat the mounted crystal. Cryogenically cool the mounted crystal.



Physical / Chemical Properties

Lot Number	281405
Molecular Formula	CF ₃ O[-CF(CF ₃)CF ₂ O-] _x (-CF ₂ O-) _y CF ₃
Average Molecular Weight (M _r)	1,800
CAS Number	[69991-67-9]
Appearance	Colorless liquid
MDL Number	MFCD00163696
PubChem Substance ID	24859107
Refractive Index	n ₂₀ /D 1.295
Solubility in Water	Insoluble
Density	1.88 g/mL at 25°C
Viscosity	60 cSt (20°C)(lit.)

For research use only.
Refer to the material safety data sheet for additional information.

Reference

1. Structure of the 'open' form of *Aspergillus nidulans* 3-dehydroquinase synthase at 1.7 Å resolution from crystal grown following enzyme turnover. C.E. Nichols, A.R. Hawkins and D.K. Stammersa. *Acta Crystallographic Section D*, Volume 60, Part 5, Pages 971-973, May 2004.
2. Crystal Structure of the Caspase Activator Human Granzyme B, a Proteinase Highly Specific for an Asp-P1 Residue. E. Estebanez-Perpina et al. *Biol. Chem.*, Vol. 381, pp. 1203-1214, December 2000.

Technical Support

Inquiries regarding Perfluoropolyether Cryo Oil and general inquiries regarding crystallization are welcome. Please e-mail, fax, or telephone your request to Hampton Research. Fax and e-mail Technical Support are available 24 hours a day. Telephone technical support is available 8:00 a.m. to 5:00 p.m. USA Pacific Standard Time.

Hampton Research
34 Journey
Aliso Viejo, CA 92656-3317 U.S.A.
Tel: (949) 425-1321 • Fax: (949) 425-1611
Technical Support e-mail: tech@hrmail.com
Website: www.hamptonresearch.com