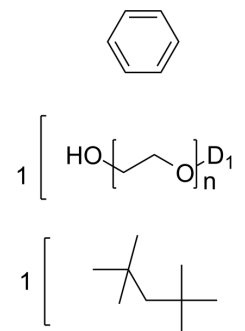


(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114

Cat. No.:	HY-W134422
CAS No.:	9036-19-5
Molecular Formula:	$(C_2H_4O)_n C_{14}H_{22}O$
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Store at room temperature 3 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 is a surfactant. (1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 is used to solubilize membranes and whole cells. A solution of (1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 is homogeneous at 0 degrees C but separates in an aqueous phase and a detergent phase above 20 degrees C. (1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 can be used in phase separation studies ^{[1][2]} .
In Vitro	<p>(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 (4%) is added to induce phase separation through cycles of cooling and heating^[1].</p> <p>A solution of (1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 is homogeneous at 0 degrees C but separates in an aqueous phase and a detergent phase above 20 degrees C^[2].</p> <p>(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol X-114 is used to solubilize membranes and whole cells^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Cancer Cell. 2025 Jul 17:S1535-6108(25)00273-9.
- J Control Release. 2025 Nov 30:389:114488.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Wu ZY, et al. Alistipes finegoldii augments the efficacy of immunotherapy against solid tumors. Cancer Cell. 2025 Sep 8;43(9):1714-1730.e12.
- [2]. Bordier C. Phase separation of integral membrane proteins in Triton X-114 solution. J Biol Chem. 1981 Feb 25;256(4):1604-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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