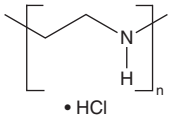
PRODUCT INFORMATION

Polyethylenimine Linear (hydrochloride) (MW 4,000)

Item No. 45761

CAS Registry No.: 49553-93-7
Formal Name: poly[[imino(1,2-ethanediyl)], monohydrochloride
Synonyms: LPEI 4000
MF: $(C_2H_5N)_n \bullet HCl$
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

Polyethylenimine linear (hydrochloride) (MW 4,000) is supplied as a solid. A stock solution may be made by dissolving the polyethylenimine linear (hydrochloride) (MW 4,000) in water. Polyethylenimine linear (hydrochloride) (MW 4,000) is soluble (≥10 mg/ml) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Polyethylenimine linear (MW 4,000) is a transfection reagent.[1,2] It has been used to deliver plasmids *in vitro* and self-amplifying RNA in mice and pigs.

References

1. Zhou, Y., Lv, R., Ye, R.D., *et al.* The 3-hydroxyacyl-CoA dehydratase 1/2 form complex with *trans*-2-enoyl-CoA reductase involved in substrates transfer in very long chain fatty acid elongation. *Biochem. Biophys. Res. Commun.* **704,** 149588 (2024)
2. Démoulins, T., Ebensen, T., Schulze, K., *et al.* Self-replicating RNA vaccine functionality modulated by fine-tuning of polyplex delivery vehicle structure. *J. Control. Release* **266,** 256-271 (2017).

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, 09/17/2026

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