Polyethylenimine (branched)

Cat. No.: HY-W250110

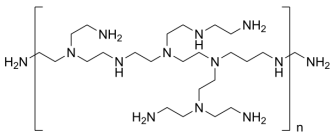
CAS No.: 9002-98-6

Molecular Formula: $(C_2H_5N)x$

Target: Biochemical Assay Reagents

Pathway: Others

Storage: Solution, -20°C, protect from light, 2 years



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	Polyethylenimine (PEI) branched is a organic macromolecule with high cationic-charge-density potential. PEI can ensnare DNA as well as attach to cell membrane, PEI also retains a substantial buffering capacity at virtually any pH. PEI is widely used as transfection reagent[1].
In Vitro	Polyethylenimine branched (ranged PEI/DNA ratio, 24 h) reaches maximal transfection efficiency at 9-13.5 equivalents of PEI nitrogen per DNA phosphate and does not affect cell metabolism in 3T3 cells. [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Polyethylenimine branched (9 eq. PEI/DNA, ICV, 24 h) exerts high luciferase activity in the brain extracts of new born mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Prostate. 2023 Dec 25.

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REFERENCES

[1]. Boussif O, et al. A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: polyethylenimine. Proc Natl Acad Sci U S A. 1995;92(16):7297-301.

Caution: Product has not been fully validated for medical applications. For research use only.

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