

Product Name: Polybrene

Catalog No.: 7711

Batch No.: 1

CAS Number: 28728-55-4

IUPAC Name: 1,5-Dimethyl-1,5-diazaundecamethylene polymethobromide

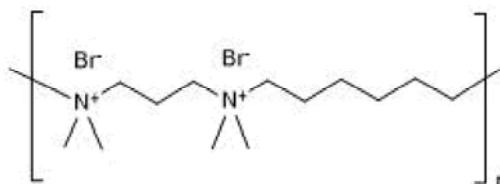
1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: White solid

Solubility: water to 100 mg/ml

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Purity by Argentometric Titration: 96.6%

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

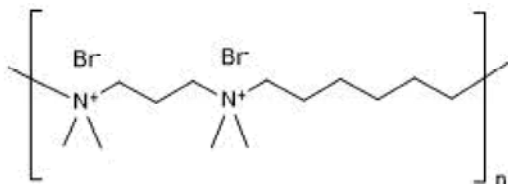
Polybrene is a cationic polymer that improves lentiviral and adenoviral transduction efficiency in mammalian cells in vitro. It also enhances DNA transfection in many types of cells. It has a neutralizing effect on negatively charged DNA and viral particles which facilitates their attachment and entry into host cells. Polybrene is suitable for use with CRISPR/Cas9 protocols. Polybrene is a lyophilized solid and can be prepared as a stock solution by adding 1 mL of sterile ultra-pure water directly to the vial (final stock concentration 10 mg/mL). For further information view the product protocol. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at +4°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mg/ml

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Joung *et al* (2022) CRISPR activation screen identifies BCL-2 proteins and B3GNT2 as drivers of cancer resistance to T cell-mediated cytotoxicity. *Nat. Commun* **13** 1606. PMID: 35338135.

Strack (2022) Breaking entry-and species barriers: LentiBOOST® Plus polybrene enhances transduction efficacy of dendritic cells and monocytes by adenovirus 5. *Viruses* **14** 92. PMID: 35062296.

Bolis *et al* (2021) Dynamic prostate cancer transcriptome analysis delineates the trajectory to disease progression. *Nat. Commun.* **12** 7033. PMID: 34857732.

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