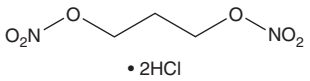
PRODUCT INFORMATION

1,3-*Bis*-aminooxy propane (hydrochloride)

Item No. 45950

CAS Registry No.: 104845-82-1
Formal Name: O,O′-1,3-propanediylbis-hydroxylamine, dihydrochloride
MF: $C_3H_{10}N_2O_2$ • 2HCl
FW: 179.0
Purity: ≥95%
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

1,3-*Bis*-aminooxy propane (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the 1,3-*bis*-aminooxy propane (hydrochloride) in the solvent of choice, which should be purged with an inert gas. 1,3-*Bis*-aminooxy propane (hydrochloride) is sparingly soluble (1-10 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 1,3-*bis*-aminooxy propane (hydrochloride) can be prepared by directly dissolving the solid in aqueous buffers. 1,3-*Bis*-aminooxy propane (hydrochloride) is soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

1,3-*Bis*-aminooxy propane is a synthetic intermediate.[1] It has been used in the synthesis of oxa-spermine derivatives with anticancer activity.

Reference

1. Kuksa, V.A., Pavlov, V.A., and Lin, P.K.T. Novel oxa-spermine homologues: Synthesis and cytotoxic properties. *Biooorg. Med. Chem.* **10(3)**, 691-697 (2002).

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
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