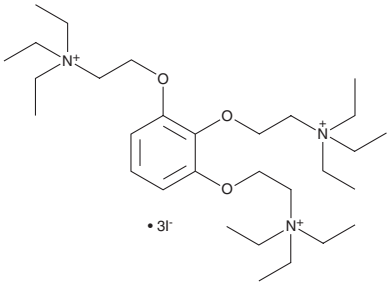
PRODUCT INFORMATION

Gallamine (iodide)

Item No. 26086

CAS Registry No.:	65-29-2
Formal Name:	2,2',2''-[1,2,3-benzenetriyl tris(oxy)]*tris*[N,N,N-triethyl-ethanaminium, triiodide
MF:	$C_{30}H_{60}N_3O_3 \bullet 3I$
FW:	891.5
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

Gallamine (iodide) is supplied as a solid. A stock solution may be made by dissolving the gallamine (iodide) in the solvent of choice, which should be purged with an inert gas. Gallamine (iodide) is slightly soluble in methanol and DMSO.

Gallamine (iodide) is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Gallamine is an allosteric modulator of muscarinic acetylcholine receptors.[1] It slows the dissociation of the muscarinic antagonist [^{3}H]NMS from M_1-M_5 muscarinic receptors, with the highest potency for M_2 receptors. Gallamine is cardioselective, inhibiting [^{3}H]NMS binding in rat heart tissue homogenates more potently than in other tissues (IC_{50}s = 0.8 and 3-30 µM, respectively).[2] Formulations containing gallamine have previously been used as neuromuscular blockers during surgery.

References

1. Ellis, J., Huyler, J., and Brann, M.R. Allosteric regulation of cloned m1-m5 muscarinic receptor subtypes. *Biochem. Pharmacol.* **42(10)**, 1927-1932 (1991).
2. Stockton, J.M., Birdsall, J.M., Burgen, A.S.V., *et al.* Modification of the binding properties of muscarinic receptors by gallamine. *Mol. Pharmacol.* **23(3)**, 551-557 (1983).

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