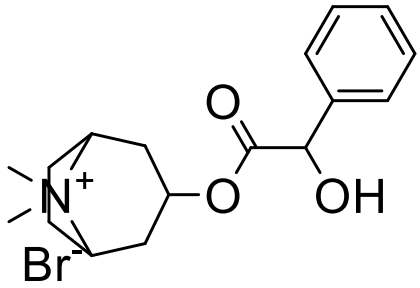
Product data sheet

MedKoo Cat#: 317993 Name: Homatropine Methylbromide CAS: 80-49-9 Chemical Formula: $C_{17}H_{24}BrNO_3$ Molecular Weight: 370.287	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Homatropine Methylbromide is a quaternary ammonium salt of methylhomatropine. It is a peripherally acting anticholinergic medication that inhibits muscarinic acetylcholine receptors and thus the parasympathetic nervous system. It does not cross the blood–brain barrier. It is used to effectively relieve intestinal spasms and abdominal cramps, without producing the adverse effects of less specific anticholinergics. It is used, in addition to papaverine, as component of mild drugs that help "flush" the bile.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	2.0	5.40
DMSO	41.67	112.53
Ethanol	74.0	199.84
PBS (pH 7.2)	10.0	27.01
Water	74.0	199.84

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	**1 mg**	**5 mg**	**10 mg**
1 mM	2.70 mL	13.50 mL	27.01 mL
5 mM	0.54 mL	2.70 mL	5.40 mL
10 mM	0.27 mL	1.35 mL	2.70 mL
50 mM	0.05 mL	0.27 mL	0.54 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

Homatropine methylbromide (Homatropine methobromide) is muscarinic AChR antagonist, inhibits endothelial and smooth muscle muscarinic receptors of WKY-E and SHR-E with IC_{50} of 162.5 nM and 170.3 nM, respectively.

In vitro activity

TBD

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In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.