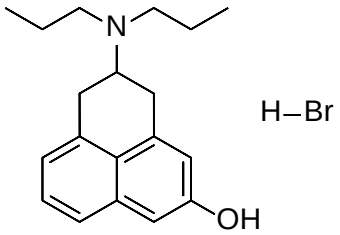
Product data sheet

MedKoo Cat#: 592513 Name: Alentemol HBr CAS: 112892-51-0 (HBr) Chemical Formula: $C_{19}H_{26}BrNO$ Molecular Weight: 364.327	
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:
Alentemol, also known as U-66444B, is a selective dopamine autoreceptor agonist described as an antipsychotic. Chromosomal breakage following treatment of CHO-K1 cells in vitro with U-68,553B is due to induction of undercondensation of heterochromatin.

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
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	**1 mg**	**5 mg**	**10 mg**
1 mM	2.74 mL	13.72 mL	27.45 mL
5 mM	0.55 mL	2.74 mL	5.49 mL
10 mM	0.27 mL	1.37 mL	2.74 mL
50 mM	0.06 mL	0.27 mL	0.55 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

Piercey MF, Broderick PA, Hoffmann WE, Vogelsang GD. U-66444B and U-68553B, potent autoreceptor agonists at dopaminergic cell bodies and terminals. J Pharmacol Exp Ther. 1990 Aug;254(2):369-74. PMID: 1974631.

7. Bioactivity
Biological target:

Alentemol, also known as U-66444B, is a selective dopamine autoreceptor agonist.

In vitro activity

TBD

In vivo activity

U-66444B was evaluated for pre- and postsynaptic effects in dopaminergic (DA) cell body and nerve terminal regions of chloral hydrate anesthetized rats. U-66444B depressed DA neurons in substantia nigra pars compacta and ventral tegmental area with a potency three times that for apomorphine. With a sufficient dose, cells were completely silenced.

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Reference: J Pharmacol Exp Ther. 1990 Aug;254(2):369-74. https://pubmed.ncbi.nlm.nih.gov/1974631/

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.