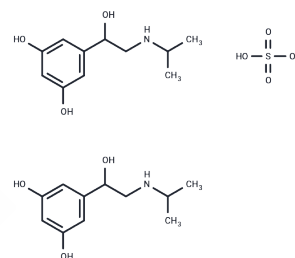


## Metaproterenol hemisulfate

### Chemical Properties

CAS No. :	5874-97-5
Formula:	C <sub>11</sub> H <sub>17</sub> NO <sub>3</sub> ·0.5H <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	260.3
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Metaproterenol hemisulfate (Orciprenaline sulfate) is a beta-2 adrenergic agonist used in the treatment of ASTHMA and BRONCHIAL SPASM.
Targets(IC50)	Adrenergic Receptor

### Solubility Information

Solubility	DMSO: 83.3 mg/mL (320.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.84 mM), Sonication is recommended. 10% DMSO+90% Saline: 8.33 mg/mL (32 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8417 mL	19.2086 mL	38.4172 mL
5 mM	0.7683 mL	3.8417 mL	7.6834 mL
10 mM	0.3842 mL	1.9209 mL	3.8417 mL
50 mM	0.0768 mL	0.3842 mL	0.7683 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kimura M, et al. J Pharmacol Exp Ther. 1999 Oct;291(1):171-80.

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