

Oxyfedrine

Chemical Properties

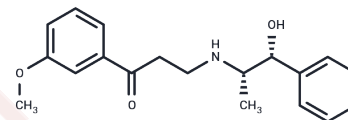
CAS No. : 15687-41-9

Formula: C₁₉H₂₃NO₃

Molecular Weight: 313.39

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	Oxyfedrine is an orally active β -adrenoreceptor agonist. Oxyfedrine is a vasodilator that reduces coronary vessels tonicity that can be used in cardiovascular disease research[1] [2].
Targets(IC50)	Others,Adrenergic Receptor
In vitro	Oxyfedrine, at a concentration of 50 μ M for 48 hours, reduces aldehyde dehydrogenase (ALDH) activity in HCT116 and HSC-4 cells, and functions as a sensitizer to GSH-depleting agents, consequently enhancing cell death in these cell lines when used in combination with such drugs [1]. Additionally, oxyfedrine, within a dosage range of 0-1 μ g/mL, hampers spontaneous myogenic activity in the rat isolated portal vein [4].
In vivo	Oxyfedrine, administered at various dosages and by different routes across multiple studies, exhibits diverse pharmacological actions. At a dosage of 14 mg/kg through oral administration (p.o.) for 3-4 weeks in cats, oxyfedrine demonstrates anti-anginal properties [2]. In a model utilizing HCT116 cell xenograft mice, oxyfedrine (10 mg/kg, intraperitoneally i.p.) combined with sulfasalazine (SSZ, 350 mg/kg, i.p.) effectively suppresses tumor growth [1]. Furthermore, at a lower dosage of 1 mg/kg administered intravenously (i.v.), oxyfedrine reduces both arterial and venous blood viscosity under conditions of ice water-induced stress in rats [3]. Detailed results from the cat model indicate oxyfedrine decreases systolic and diastolic blood pressures, while increasing heart rate and cardiac output [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1909 mL	15.9546 mL	31.9091 mL
5 mM	0.6382 mL	3.1909 mL	6.3818 mL
10 mM	0.3191 mL	1.5955 mL	3.1909 mL
50 mM	0.0638 mL	0.3191 mL	0.6382 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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