

Benserazide (hydrochloride)

Catalog No: tcsc2504



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

14919-77-8

Formula:

$C_{10}H_{16}ClN_3O_5$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 50 mg/mL (170.24 mM); DMSO : 100 mg/mL (340.48 mM; Need ultrasonic)

Alternative Names:

Serazide;Ro 4-4602

Observed Molecular Weight:

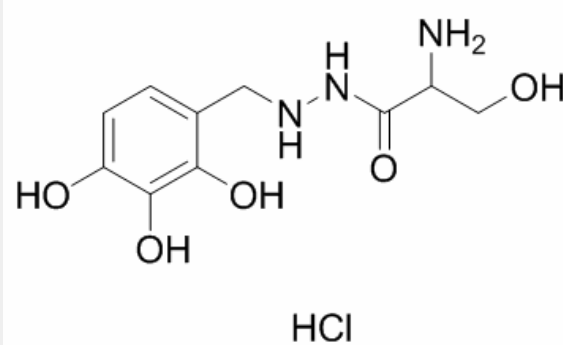
293.7

Product Description

Benserazide Hydrochloride is a peripherally-acting aromatic L-amino acid decarboxylase (AAAD) or DOPA decarboxylase inhibitor.

Target: DOPA decarboxylase

Benserazide is commonly used for Parkinson's disease in combination with L-DOPA as a peripheral aromatic L-amino acid decarboxylase (AADC) inhibitor. Administration of 5, 10 and 50 mg/kg benserazide to 6-OHDA-lesioned rats showed an identical increase in exogenous L-DOPA-derived extracellular DA levels, the time to reach the peak DA levels were significantly prolonged by benserazide dose-dependently. The AADC activity in the denervated striatal tissues showed a significant decrease by 10 mg/kg and 50 mg/kg benserazide. These results suggest that benserazide reduces the central AADC activity in the striatum of rats with nigrostriatal denervation, which leads to changes in the metabolism of exogenous L-DOPA [1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!