

Taian Green Industry Co., Ltd.

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TECHNICAL DATA SHEETS

1. Product name: Sildenafil Mesylate
2. Chemical Name: (S)-2-[[4-[(3-Fluorobenzyl)oxy]benzyl]amino]propanamide methanesulfonate; (S)-(+)-2-[[4-(3-Fluorobenzoyloxy)benzyl]amino]propanamide; FCE26743; PNU151774E, NW1015; EMD1195686; 2S-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-propanamide, monomethanesulfonate
3. CAS No.: 202825-46-5
4. MF: C₁₇H₁₉FN₂O₂.CH₄O₃S
5. MW: 398.45
6. Technical specifications

Item	Specifications	Results
Appearance	White to off-white powder	White powder
Assay	≥98%	98.6%
Conclusion	The results conform with enterprise standards	

7. Usage

Sildenafil mesylate is the methanesulfonic acid form of its active component sildenafil, a selective and reversible monoamine oxidase B (MAO-B) inhibitor with the value of 50% inhibition concentration IC₅₀ of 98 nM. Having been used for the treatment of Parkinson's disease (PD), sildenafil potentially modulates dopamine (DA), a substrate of MAO-B, suppressing DA uptake and reversibly binds to MAO-B blocking the function of MAO-B, which lead to the relief of PD symptoms. Besides MAO-B inhibition, sildenafil exhibits novel anticonvulsant activities, including sodium channel blockade, calcium channel blockade and glutamate release inhibition, with values of IC₅₀ of 8.2 μM, 31.5 μM and >56.4 μM respectively.

8. Package

As your requirements