



## CERTIFICATE OF ANALYSIS

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### 1. Identification

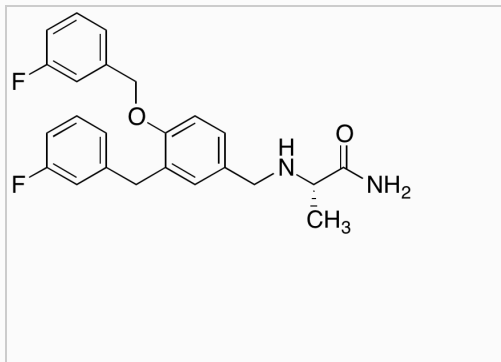
**Catalogue Number:** F590975

**CAS Number:** 1000370-27-3

**Product:** (S)-2-[[[3-(3-Fluorobenzyl)-4-[(3-fluorobenzyl)oxy]benzyl]amino]propanamide

**Synonym:** (2S)-2-[[[4-[(3-Fluorophenyl)methoxy]-3-[(3-fluorophenyl)methyl]phenyl]methyl]amino]propanamide; Sildenafil Impurity 1;

**Structure:**



**Molecular Formula:**

C<sub>24</sub>H<sub>24</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

**Molecular weight:**

410.46

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly)

**Lot Number:** 20-YSW-47-2

**Purity:** 96%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C, Inert atmosphere

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Chirality	Report Result	ee = 97.08% by Chiral HPLC (210 nm)
F NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	-6.2° (c = 0.1, Methanol)
HPLC Purity	Report Result	96.14% (200 nm)
Elemental Analysis	Conforms	%C: 70.22, %H: 5.82, %N: 6.94
MS	Conforms to Structure	Conforms

**Additional Information:**

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

**Reviewed By**  
Nicole Yip

**Reviewed By**  
Toni Rantanen

**C of A Approved By**  
Chanell Chu

**Test Date**  
7/20/2022

**Retest Date**  
7/18/2026