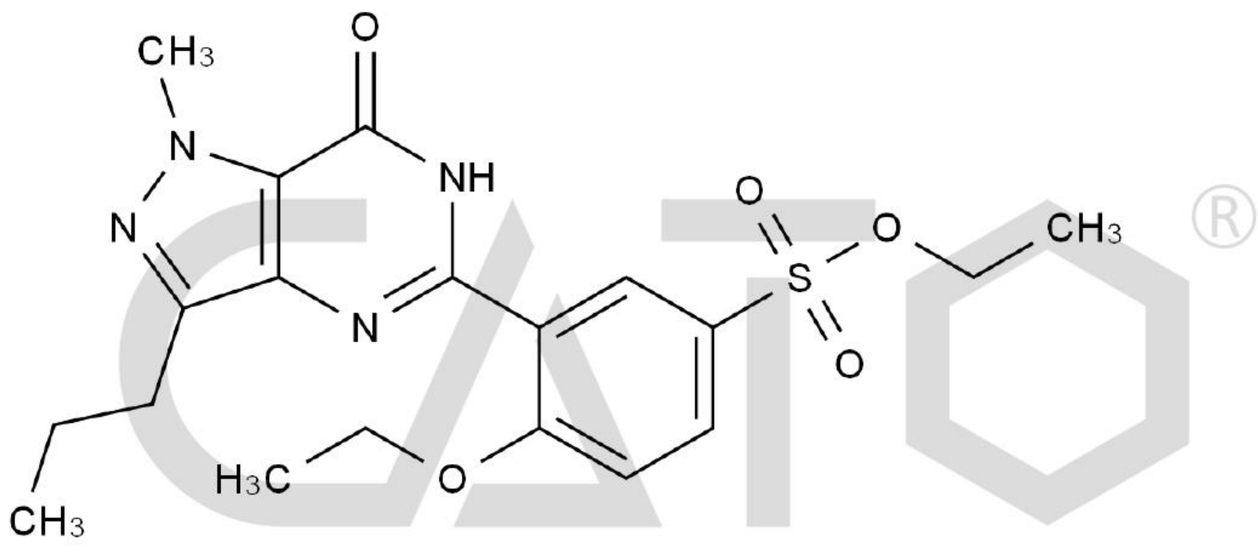
Certificate of Analysis

Reference Material & Standard

Product Name:	Sildenafil Impurity 16	**Catalogue Number:**	C4X-112816
Synonyms:	N/A	**Lot Number:**	0603-RH-0083
CAS Number:	1971915-89-5	**Expiry Date:**	Jun 07, 2030
Molecular Formula:	$C_{19}H_{24}N_4O_5S$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	420.48	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.553%
Loss on Drying	TGA	0.0619%
Assay		99.5%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice — Date: Jun 08, 2026

Reviewed by: Koi — Date: Jun 09, 2026

Approved by General Manager: David — Date: Jun 09, 2026

CATO Research Chemicals Inc.