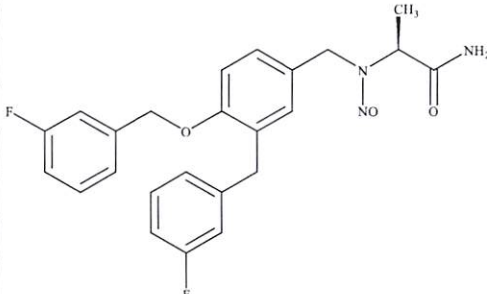


## Certificate of Analysis



Certificate No.: 20240126502

Date: January 26, 2024

Retest date: January 22, 2027

<b>Compound Name:</b>	<b>N-Nitroso Safinamide Impurity 1</b>	
<b>Synonyms:</b>	(S)-2-[1-({4-[( <i>m</i> -fluorophenyl)methoxy]-3-[( <i>m</i> -fluorophenyl)methyl]phenyl)methyl)-2-oxohydrazino]propionamide	
<b>TLC Catalogue Number:</b>	S-073021	
<b>CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	439.46	
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>23</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	C0138-054A14	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	Pale yellow solid	<b>Conforms</b>
<b>Identification</b>		
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>98.1%</b>
<b>Impurity (HPLC)</b>	RT 8.95, 1.03%; RT 11.06, 0.52%; RT 17.42, 0.14%	
<b>Water Content (KF)</b>	N/A	<b>0.4%</b>
<b>Optical Rotation</b>	N/A	[α] <sub>D</sub> <sup>20.0</sup> (c=0.30, CHCl <sub>3</sub> ): <b>-33.3°</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>97.7%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound is an <i>N</i> -Nitroso product. Avoid using metal spatula and applying pressure. Wear proper personal protective equipment when handling.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01 129 12024
Approved by:	Quality Assurance		01129 12024

**Attachments:** HPLC, MS and NMR spectra.