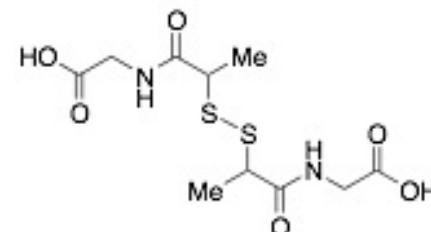


CERTIFICATE OF ANALYSIS**1. Identification**

Catalogue Number **Lot Number**
T444790 19-UPA-161-1

Product Name
Tiopronin Disulfide

StructureSynonyms

N,N'-[Dithiobis(2-methyl-1-oxo-2,1-ethanediyl)]bisglycine; N,N'-[Dithiobis(ethylideneacarbonyl)]diglycine; 2,2'-Dithiobis(propionylglycine); Oxidized 2-Mercaptopropionylglycine

CAS Number

21269-37-4 Solubility
DMSO (Slightly), Methanol (Slightly, Heated, Sonicated), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₁₀H₁₆N₂O₆S₂ Source of Product
Synthetic

Long Term Storage Conditions

4°C, Hygroscopic

Molecular Weight

324.37 Purity
>95%

2. Warnings

Very Hygroscopic

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 36.60, %H: 4.94, %N: 8.36
HPLC Purity	>95%	95.94% (205 nm)
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 $\pm 2\%$. 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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			2/16/2023	2/14/2027

Farnaz Mahmoudi

Quality Assurance Associate

Toni Rantanen

Manager, Quality Assurance

Chanell Chu

Jr. Quality Assurance