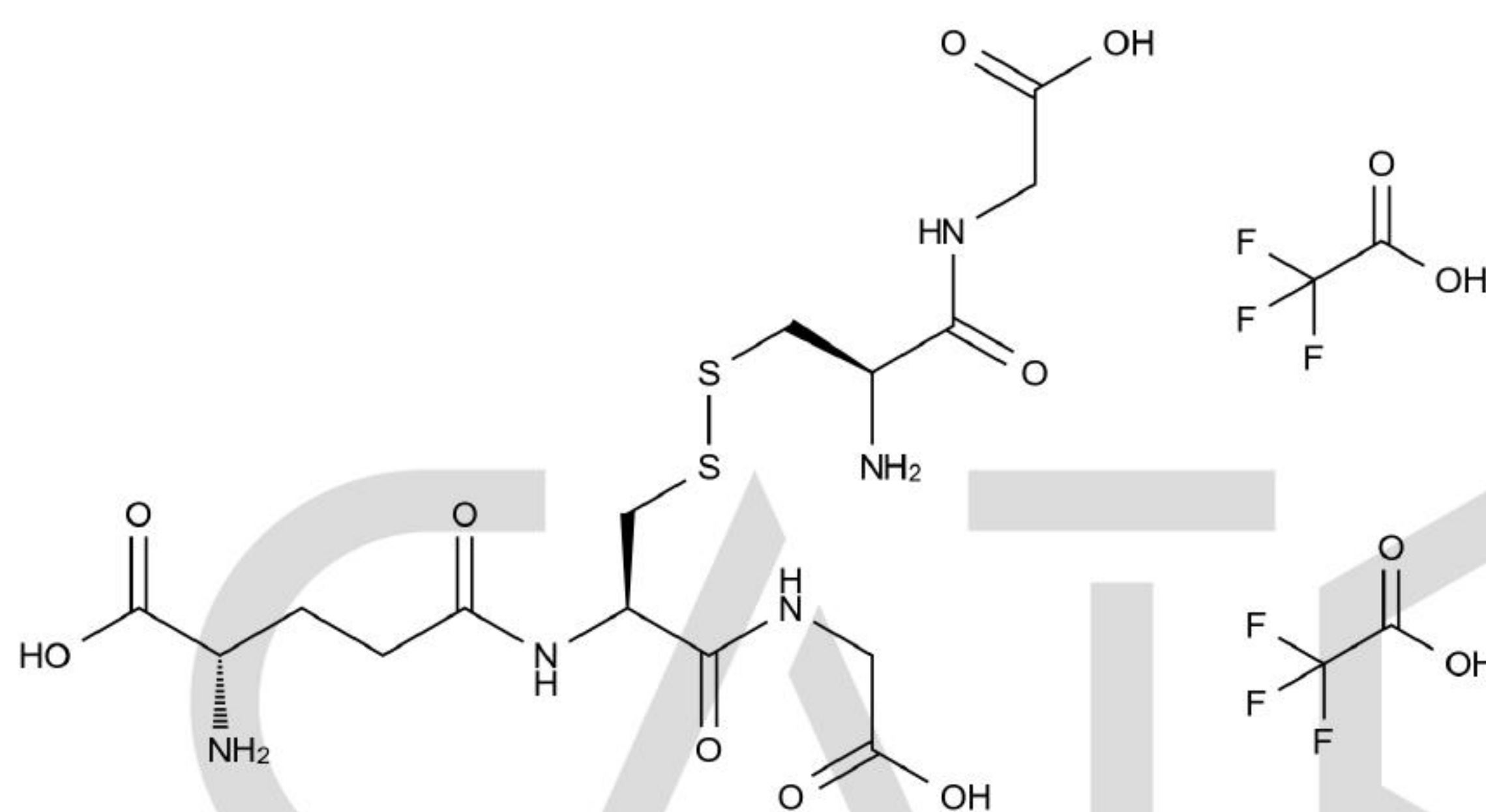


Certificate of Analysis

Reference Material & Standard

Product Name:	Glutathione Impurity 19 Ditrifluoroacetate	Catalogue Number:	C4X-118519
Synonyms:	N/A	Lot Number:	0110-RG-0014
CAS Number:	70555-25-8 (free base)	Expiry Date:	Dec 24, 2027
Molecular Formula:	C ₁₅ H ₂₅ N ₅ O ₉ S ₂ 2*C ₂ H ₃ F ₃ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	483.52 2*114.02		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	98.0%
Residual Solvents	NMR	0.6% diethyl ether and 1.6% trifluoroacetic acid
Optical Rotation		[α] _D ^{25.0} (c=0.36,H ₂ O): -64.7°

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jan 14, 2025

Date: Jan 15, 2025

Date: Jan 15, 2025

