CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

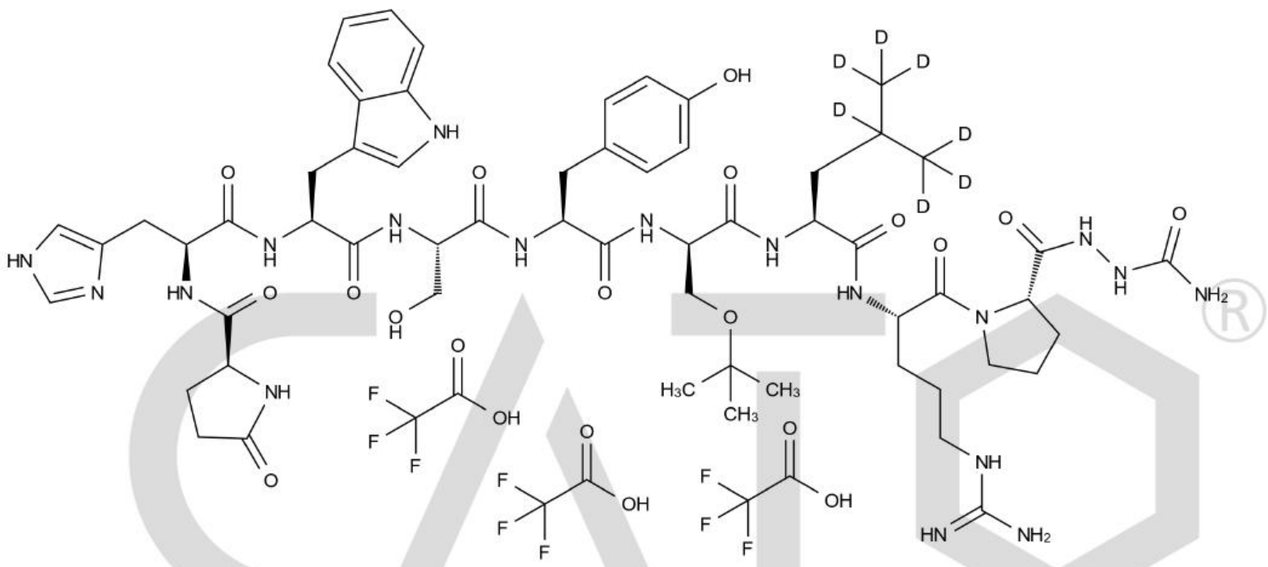
No.: 202602030131

Certificate of Analysis

Reference Material & Standard

Product Name:	Goserelin-d7 Tris-Trifluoroacetate	**Catalogue Number:**	C4X-192014
Synonyms:	N/A	**Lot Number:**	1118-RF-0010
CAS Number:	N/A	**Expiry Date:**	Jun 27, 2033
Molecular Formula:	$C_{59}H_{77}D_7N_{18}O_{14}$ 3*$C_2HF_3O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	1276.45 3*114.02	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	95.9271%
Isotopic Purity		99.3%
Water Content	Karl Fischer	3.30%
Residual Solvents	NMR	Not detected in NMR
Assay		92.8%

Comment:

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

Signature:

Prepared by: Date: Feb 03, 2026

Reviewed by: Date: Feb 03, 2026

Approved by General Manager: Date: Feb 03, 2026

CATO Research Chemicals Inc.

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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