

Analytical Data Sheet

Lot number

1043261

not for drug use

Catalog Number

H-5545.0050

Product number

4031309.0050

Product

TGF α (1- 50) (rat) trifluoroacetate salt

H- Val- Val- Ser- His- Phe- Asn- Lys- Cys- Pro- Asp- Ser- His- Thr- Gln- Tyr- Cys- Phe- His- Gly- Thr- Cys- Arg- Phe- Leu- Val- Gln- Glu- Glu- Lys- Pro- Ala- Cys- Val- Cys- His- Ser- Gly- Tyr- Val- Gly- Val- Arg- Cys- Glu- His- Ala- Asp- Leu- Leu- Ala- OH trifluoroacetate salt
(Disulfide bonds between Cys⁸ and Cys²¹/Cys¹⁶ and Cys³²/Cys³⁴ and Cys⁴³)

Molecular formula

$C_{244}H_{361}N_{71}O_{71}S_6$

Relative molecular mass

5617.38

Tests	Results
Appearance	white powder
Identification (MALDI-MS)	m= 5616.8u
Amino acid analysis	<p>Asx 3.1 (3) Thr 2.3 (2) Ser 2.9 (3) Glx 5.1 (5) Pro 2.1 (2) Gly 3.0 (3) Ala 3.0 (3) Cys* 0.3 (6) Val** 4.4 (6) Leu 3.0 (3) Tyr 1.9 (2) Phe 2.9 (3) His 4.9 (5) Lys 2.1 (2) Arg 2.0 (2)</p> <p>* Partially destroyed during acid hydrolysis ** Valine value low due to the resistance of the Val-Val bond to acid hydrolysis.</p>
Solubility	soluble in 0.1% TFA in water
Purity (HPLC)	> 99%
Assay (AAA)	75.9%
Latest update: November 22, 2012	<p style="text-align: right;">Analytical Data Sheet Lot number 1043261</p>