toxins

Supplementary Materials: Beyond Angiogenesis: The Multitasking Approach of the First PEGylated Vascular Endothelial Growth Factor (CdtVEGF) from Brazilian Rattlesnake Venom

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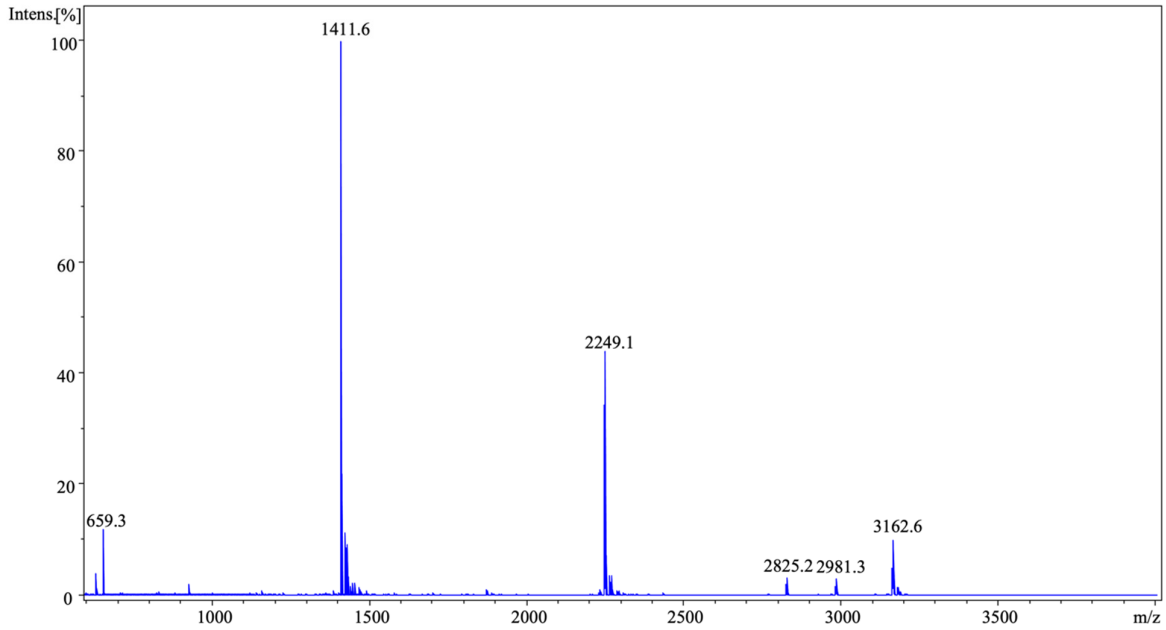


Figure S1. Peptide mass fingerprint of *Cdt*VEGF digested with trypsin.

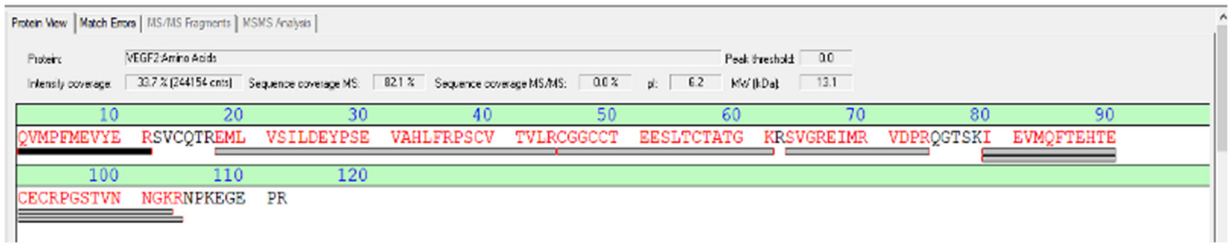
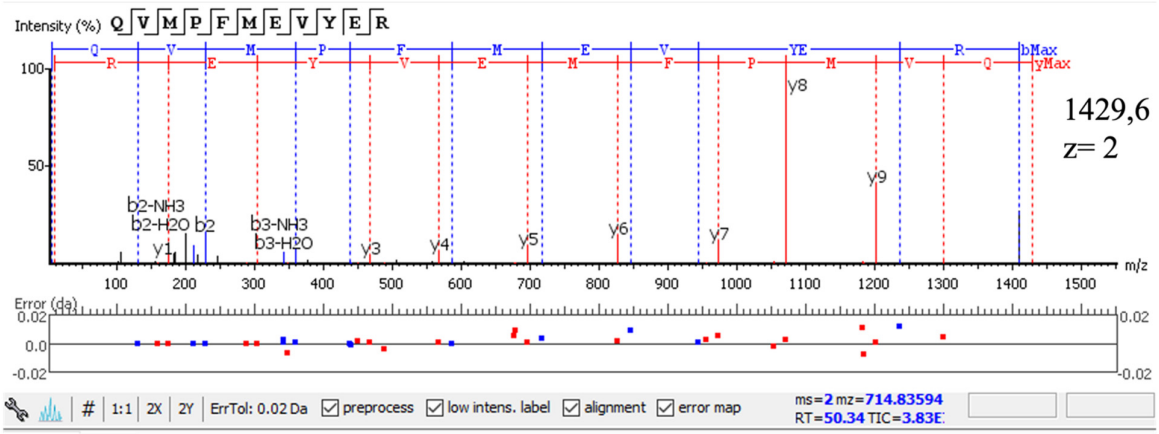
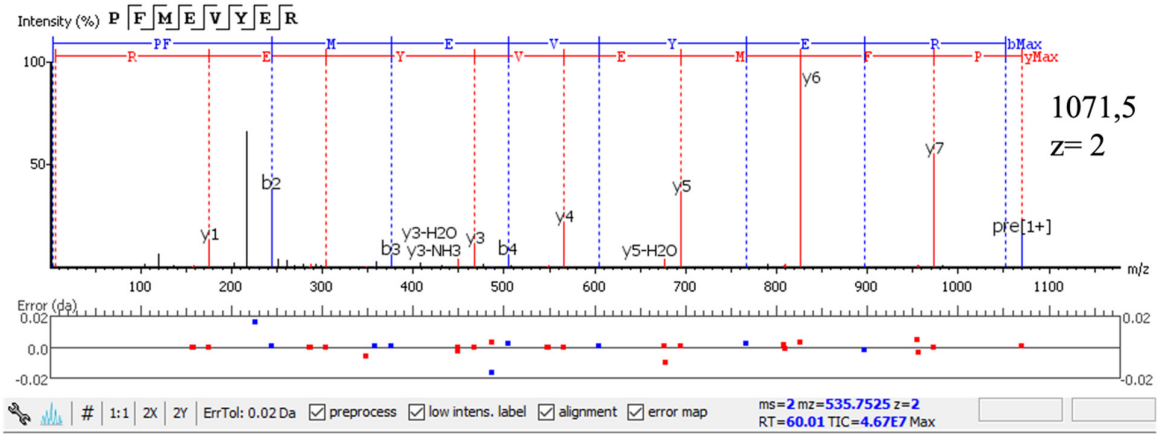
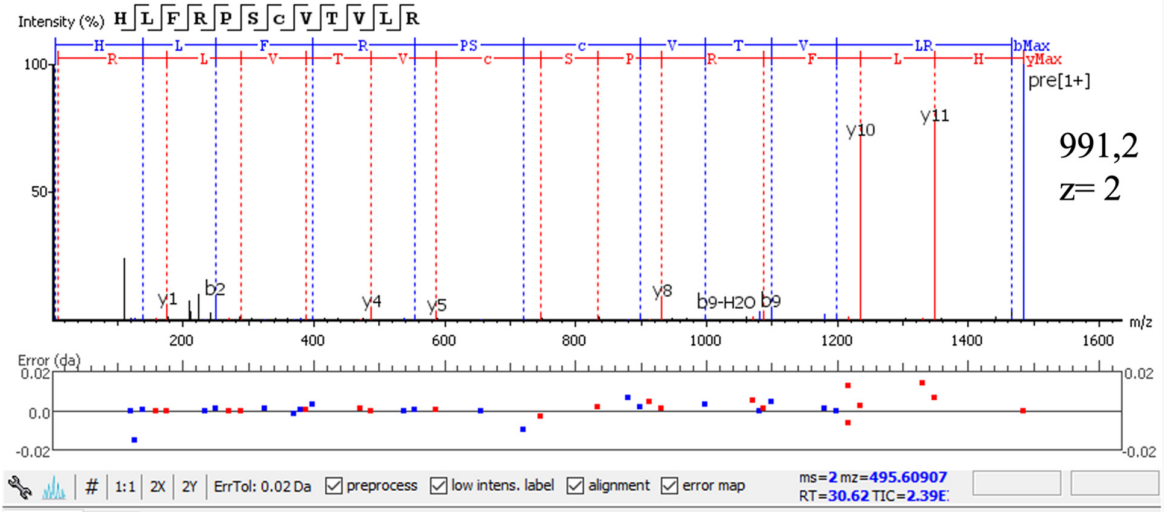
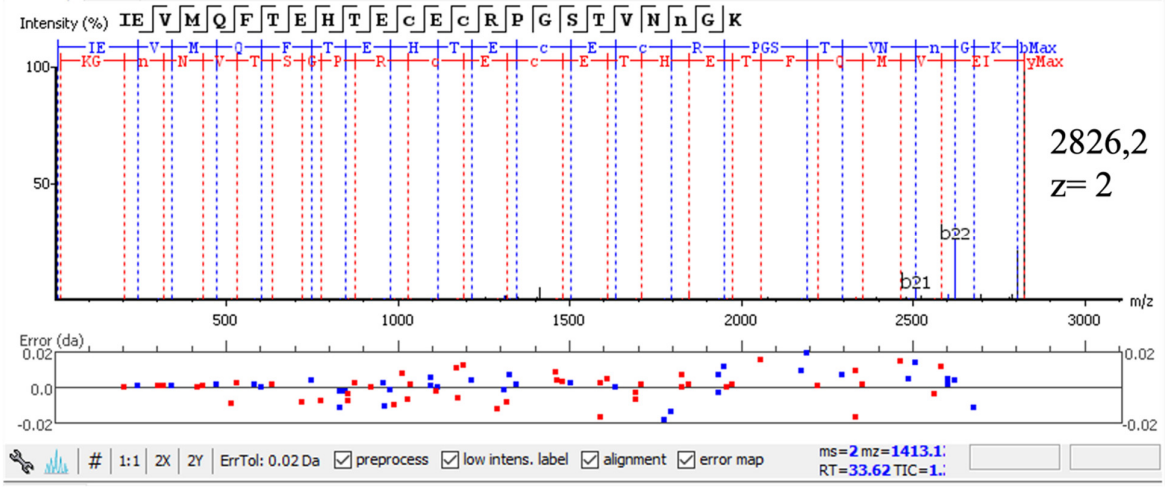


Figure S2. Sequence coverage of *Cdt*VEGF determined by peptide mass fingerprint. Black and gray bar: matching peptides.


Intensity (%)
Q V M P F M E V Y E R
1429,6
z= 2
y8
y9
b2-NH3
b2-H2O
b2
b3-NH3
b3-H2O
y1
y3
y4
y5
y6
y7
m/z
Error (da)
ms=2 mz=714.83594
RT=50.34 TIC=3.83E


Intensity (%)
P F M E V Y E R
1071,5
z= 2
y6
y7
b2
y5
y4
y1
y3-H2O
y3-NH3
b3
y3
b4
y5-H2O
pre[1+]
m/z
Error (da)
ms=2 mz=535.7525 z=2
RT=60.01 TIC=4.67E7 Max


Intensity (%)
H L F R P S c V T V L R
bMax
yMax
pre[1+]
y10
y11
991,2
z= 2
y1
b2
y4
y5
y8
b9-H2O
b9
m/z
Error (da)
ms=2 mz=495.60907
RT=30.62 TIC=2.39E


Intensity (%)
IE V M Q F T E H T E c E c R P G S T V N n G K
bMax
yMax
2826,2
z= 2
b22
b21
m/z
Error (da)
ms=2 mz=1413.1
RT=33.62 TIC=1.

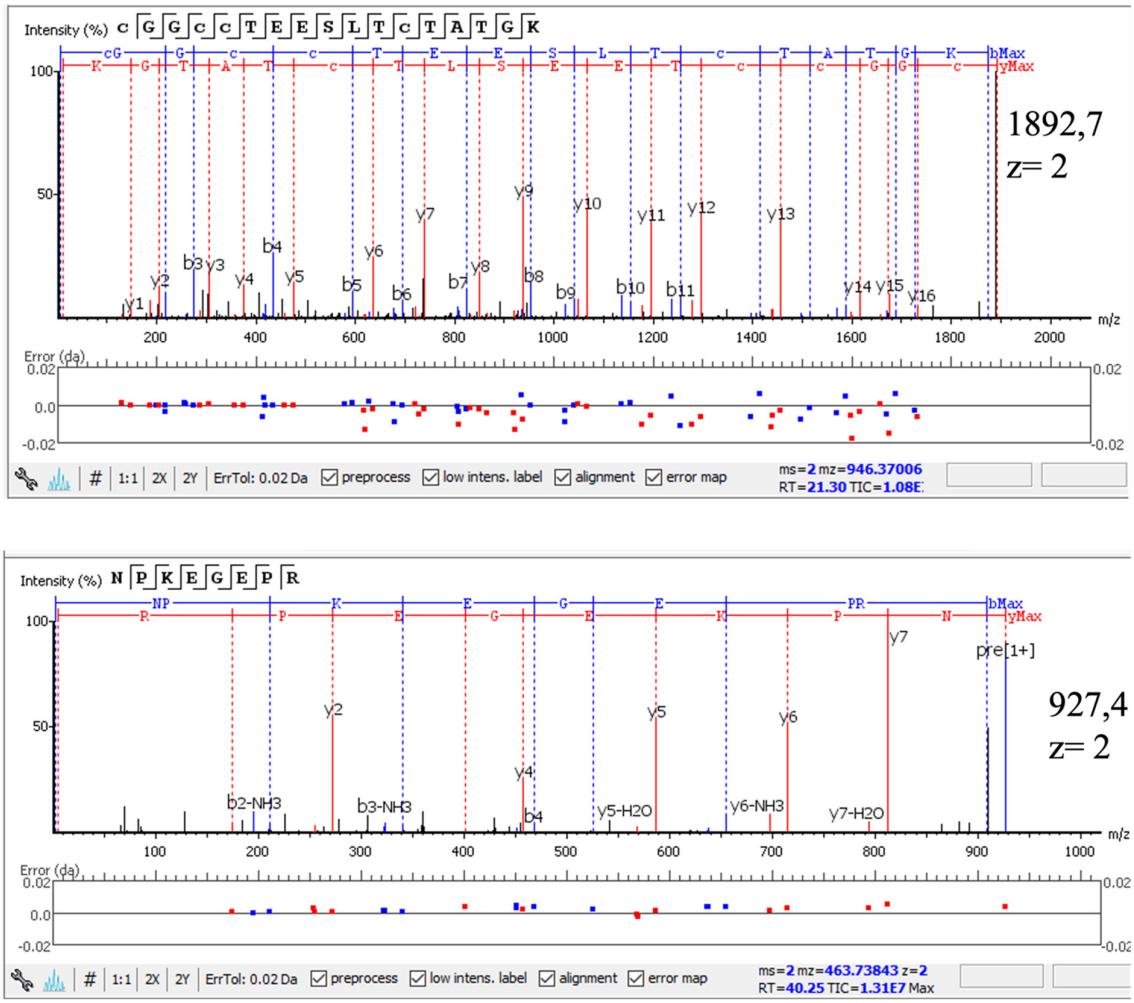


Figure S3. Mass spectra of matching peptides**.** The ion fragmentations were analyzed by PeaksStudioX software indicating y ions (blue) and b ions (red).

Table S1. Percentage of recovery from fractions obtained with PEGylation.

Sample	Purification step	Recovery (%)*
Fraction 2	Reversed-phase – C4	4.85
Fraction 3	Reversed-phase – C4	4.06
Fraction 4 (PEG-*Cdt*VEGF)	Reversed-phase – C4	76.32

* Recovery percentage calculated using Unicorn 5.2 software (GE Healthcare) according to the ratio between the area under the absorbance curve at 280 nm of each corresponding fraction and the sum of the areas of all fractions eluted.