

 **Mascot Search Results**

## Peptide View

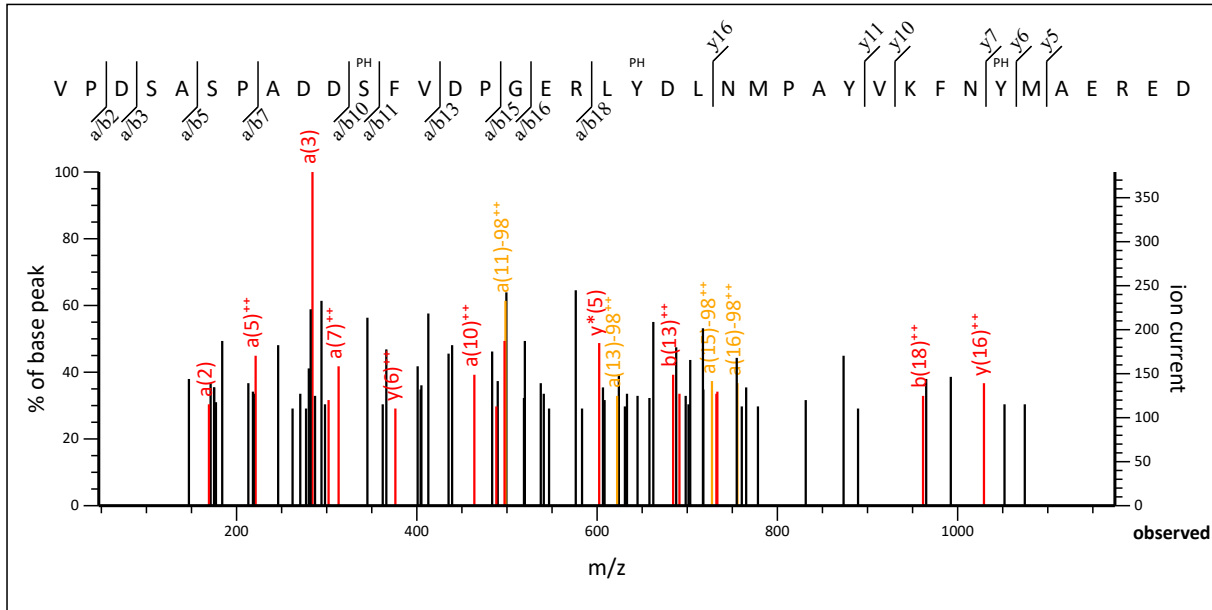
MS/MS Fragmentation of **VPDSASPADD SFVDPGERLYDLNMPAYVKFN**YMAERED

Found in **Human\_Nck1** in **Human\_Nck1**, Human\_Nck1

Match to Query 8678: 4564.586544 from(761.771700,6+) intensity(5306.0000) rtinseconds(1762.25) scans(MS: 7437 MSMS: 7442) index(5269)

Title: Cmpd 5270, +MS2(761.7717), 35.2eV, 29.4 min #7442

Data file D:\ID proteins\mgf\ID2025\mgf20250102\Jatuporn\CD4\_10min.mgf



47.13 to 1174.48



Label all possible matches ☒ Label matches used for scoring ☐

**Monoisotopic mass of neutral peptide Mr(calc): 4562.8402**

**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

**S11** : Phospho (ST), with neutral losses 97.9769(shown in table), 0.0000

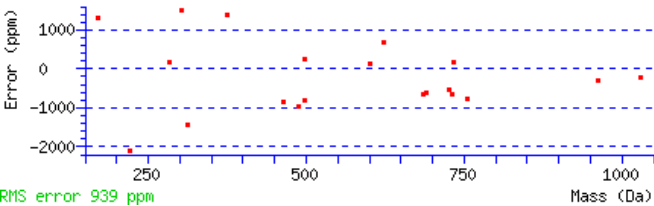
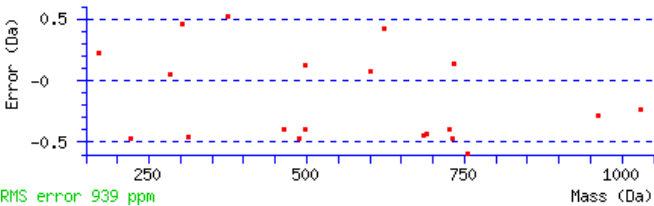
Y20 : Phospho (Y)

Y32 : Phospho (Y)

Ions Score: 2 Expect: 0.62 ([help](#))

| #  | a         | a <sup>++</sup> | a* | a <sup>*++</sup> | b         | b <sup>++</sup> | b* | b <sup>*++</sup> | Seq. | y         | y <sup>++</sup> | y*        | y <sup>*++</sup> | #  |
|----|-----------|-----------------|----|------------------|-----------|-----------------|----|------------------|------|-----------|-----------------|-----------|------------------|----|
| 1  | 72.0808   | 36.5440         |    |                  | 100.0757  | 50.5415         |    |                  | V    |           |                 |           |                  | 38 |
| 2  | 169.1335  | 85.0704         |    |                  | 197.1285  | 99.0679         |    |                  | P    | 4366.8022 | 2183.9047       | 4349.7757 | 2175.3915        | 37 |
| 3  | 284.1605  | 142.5839        |    |                  | 312.1554  | 156.5813        |    |                  | D    | 4269.7495 | 2135.3784       | 4252.7229 | 2126.8651        | 36 |
| 4  | 371.1925  | 186.0999        |    |                  | 399.1874  | 200.0974        |    |                  | S    | 4154.7225 | 2077.8649       | 4137.6960 | 2069.3516        | 35 |
| 5  | 442.2296  | 221.6185        |    |                  | 470.2245  | 235.6159        |    |                  | A    | 4067.6905 | 2034.3489       | 4050.6639 | 2025.8356        | 34 |
| 6  | 529.2617  | 265.1345        |    |                  | 557.2566  | 279.1319        |    |                  | S    | 3996.6534 | 1998.8303       | 3979.6268 | 1990.3170        | 33 |
| 7  | 626.3144  | 313.6608        |    |                  | 654.3093  | 327.6583        |    |                  | P    | 3909.6213 | 1955.3143       | 3892.5948 | 1946.8010        | 32 |
| 8  | 697.3515  | 349.1794        |    |                  | 725.3464  | 363.1769        |    |                  | A    | 3812.5686 | 1906.7879       | 3795.5420 | 1898.2747        | 31 |
| 9  | 812.3785  | 406.6929        |    |                  | 840.3734  | 420.6903        |    |                  | D    | 3741.5315 | 1871.2694       | 3724.5049 | 1862.7561        | 30 |
| 10 | 927.4054  | 464.2063        |    |                  | 955.4003  | 478.2038        |    |                  | D    | 3626.5045 | 1813.7559       | 3609.4780 | 1805.2426        | 29 |
| 11 | 996.4269  | 498.7171        |    |                  | 1024.4218 | 512.7145        |    |                  | S    | 3511.4776 | 1756.2424       | 3494.4510 | 1747.7292        | 28 |
| 12 | 1143.4953 | 572.2513        |    |                  | 1171.4902 | 586.2487        |    |                  | F    | 3442.4561 | 1721.7317       | 3425.4296 | 1713.2184        | 27 |
| 13 | 1242.5637 | 621.7855        |    |                  | 1270.5586 | 635.7829        |    |                  | V    | 3295.3877 | 1648.1975       | 3278.3611 | 1639.6842        | 26 |
| 14 | 1357.5907 | 679.2990        |    |                  | 1385.5856 | 693.2964        |    |                  | D    | 3196.3193 | 1598.6633       | 3179.2927 | 1590.1500        | 25 |
| 15 | 1454.6434 | 727.8253        |    |                  | 1482.6383 | 741.8228        |    |                  | P    | 3081.2923 | 1541.1498       | 3064.2658 | 1532.6365        | 24 |
| 16 | 1511.6649 | 756.3361        |    |                  | 1539.6598 | 770.3335        |    |                  | G    | 2984.2396 | 1492.6234       | 2967.2130 | 1484.1102        | 23 |

|    |           |           |           |           |           |           |           |           |   |           |           |           |           |    |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|-----------|-----------|-----------|-----------|----|
| 17 | 1640.7075 | 820.8574  |           |           | 1668.7024 | 834.8548  |           |           | E | 2927.2181 | 1464.1127 | 2910.1916 | 1455.5994 | 22 |
| 18 | 1796.8086 | 898.9079  | 1779.7820 | 890.3947  | 1824.8035 | 912.9054  | 1807.7769 | 904.3921  | R | 2798.1755 | 1399.5914 | 2781.1490 | 1391.0781 | 21 |
| 19 | 1909.8926 | 955.4500  | 1892.8661 | 946.9367  | 1937.8876 | 969.4474  | 1920.8610 | 960.9341  | L | 2642.0744 | 1321.5408 | 2625.0479 | 1313.0276 | 20 |
| 20 | 2152.9223 | 1076.9648 | 2135.8958 | 1068.4515 | 2180.9172 | 1090.9622 | 2163.8907 | 1082.4490 | Y | 2528.9903 | 1264.9988 | 2511.9638 | 1256.4855 | 19 |
| 21 | 2267.9492 | 1134.4783 | 2250.9227 | 1125.9650 | 2295.9442 | 1148.4757 | 2278.9176 | 1139.9624 | D | 2285.9607 | 1143.4840 | 2268.9341 | 1134.9707 | 18 |
| 22 | 2381.0333 | 1191.0203 | 2364.0068 | 1182.5070 | 2409.0282 | 1205.0178 | 2392.0017 | 1196.5045 | L | 2170.9337 | 1085.9705 | 2153.9072 | 1077.4572 | 17 |
| 23 | 2495.0762 | 1248.0418 | 2478.0497 | 1239.5285 | 2523.0712 | 1262.0392 | 2506.0446 | 1253.5259 | N | 2057.8497 | 1029.4285 | 2040.8231 | 1020.9152 | 16 |
| 24 | 2626.1167 | 1313.5620 | 2609.0902 | 1305.0487 | 2654.1116 | 1327.5595 | 2637.0851 | 1319.0462 | M | 1943.8068 | 972.4070  | 1926.7802 | 963.8937  | 15 |
| 25 | 2723.1695 | 1362.0884 | 2706.1429 | 1353.5751 | 2751.1644 | 1376.0858 | 2734.1379 | 1367.5726 | P | 1812.7663 | 906.8868  | 1795.7397 | 898.3735  | 14 |
| 26 | 2794.2066 | 1397.6069 | 2777.1801 | 1389.0937 | 2822.2015 | 1411.6044 | 2805.1750 | 1403.0911 | A | 1715.7135 | 858.3604  | 1698.6870 | 849.8471  | 13 |
| 27 | 2957.2699 | 1479.1386 | 2940.2434 | 1470.6253 | 2985.2648 | 1493.1361 | 2968.2383 | 1484.6228 | Y | 1644.6764 | 822.8418  | 1627.6498 | 814.3286  | 12 |
| 28 | 3056.3383 | 1528.6728 | 3039.3118 | 1520.1595 | 3084.3333 | 1542.6703 | 3067.3067 | 1534.1570 | V | 1481.6131 | 741.3102  | 1464.5865 | 732.7969  | 11 |
| 29 | 3184.4333 | 1592.7203 | 3167.4068 | 1584.2070 | 3212.4282 | 1606.7177 | 3195.4017 | 1598.2045 | K | 1382.5446 | 691.7760  | 1365.5181 | 683.2627  | 10 |
| 30 | 3331.5017 | 1666.2545 | 3314.4752 | 1657.7412 | 3359.4966 | 1680.2520 | 3342.4701 | 1671.7387 | F | 1254.4497 | 627.7285  | 1237.4231 | 619.2152  | 9  |
| 31 | 3445.5446 | 1723.2760 | 3428.5181 | 1714.7627 | 3473.5396 | 1737.2734 | 3456.5130 | 1728.7601 | N | 1107.3813 | 554.1943  | 1090.3547 | 545.6810  | 8  |
| 32 | 3688.5743 | 1844.7908 | 3671.5478 | 1836.2775 | 3716.5692 | 1858.7883 | 3699.5427 | 1850.2750 | Y | 993.3383  | 497.1728  | 976.3118  | 488.6595  | 7  |
| 33 | 3819.6148 | 1910.3110 | 3802.5882 | 1901.7978 | 3847.6097 | 1924.3085 | 3830.5832 | 1915.7952 | M | 750.3087  | 375.6580  | 733.2821  | 367.1447  | 6  |
| 34 | 3890.6519 | 1945.8296 | 3873.6254 | 1937.3163 | 3918.6468 | 1959.8270 | 3901.6203 | 1951.3138 | A | 619.2682  | 310.1377  | 602.2416  | 301.6245  | 5  |
| 35 | 4019.6945 | 2010.3509 | 4002.6680 | 2001.8376 | 4047.6894 | 2024.3483 | 4030.6629 | 2015.8351 | E | 548.2311  | 274.6192  | 531.2045  | 266.1059  | 4  |
| 36 | 4175.7956 | 2088.4014 | 4158.7691 | 2079.8882 | 4203.7905 | 2102.3989 | 4186.7640 | 2093.8856 | R | 419.1885  | 210.0979  | 402.1619  | 201.5846  | 3  |
| 37 | 4304.8382 | 2152.9227 | 4287.8117 | 2144.4095 | 4332.8331 | 2166.9202 | 4315.8066 | 2158.4069 | E | 263.0874  | 132.0473  |           |           | 2  |
| 38 |           |           |           |           |           |           |           |           | D | 134.0448  | 67.5260   |           |           | 1  |



NCBI BLAST search of [VPDSASPADDSFVDPGERLYDLNMPAYVKFNMAERED](#)  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

All matches to this query

| Score | Mr(calc)  | Delta   | Sequence                                               |
|-------|-----------|---------|--------------------------------------------------------|
| 2.2   | 4562.8402 | 1.7463  | <a href="#">VPDSASPADDSFVDPGERLYDLNMPAYVKFNMAERED</a>  |
| 2.1   | 4563.9400 | 0.6466  | <a href="#">VPDSASPADDSFVDPGERLYDLNMPAYVKFNMAEREDE</a> |
| 1.8   | 4562.8402 | 1.7463  | <a href="#">VPDSASPADDSFVDPGERLYDLNMPAYVKFNMAERED</a>  |
| 1.7   | 4562.8402 | 1.7463  | <a href="#">VPDSASPADDSFVDPGERLYDLNMPAYVKFNMAERED</a>  |
| 1.1   | 4564.9717 | -0.3852 | <a href="#">DLNMPAYVKFNMAEREDESLIKGTKVIVMEKCSDG</a>    |

Mascot: <http://www.matrixscience.com/>