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## Supporting Information

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# Supporting Information

for

## Cell-Permeable $\beta$ -Peptide Inhibitors of p53•hDM2 Complexation

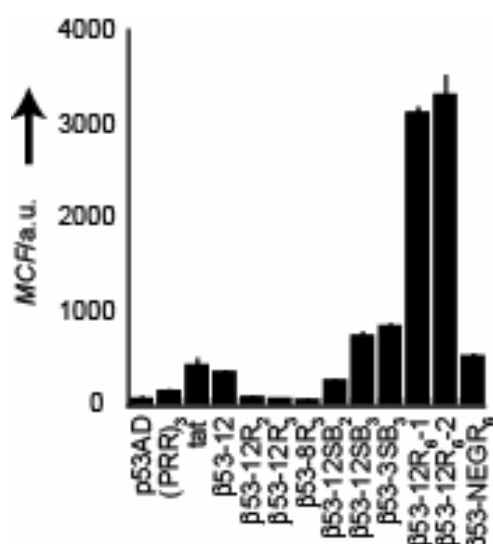
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**Table SI-1.** Theoretical and MALDI-TOF MS-observed molecular weights for original  $\beta^3$ -peptides used in this study.

$\beta^3$ -peptide	Formula	Mass calcd (M+H <sup>+</sup> )	Masses found
<b><math>\beta 53</math>-8R<sub>3</sub></b>	C <sub>74</sub> H <sub>122</sub> N <sub>22</sub> O <sub>15</sub>	1560.9	1563.5 (M+H <sup>+</sup> ), 1585.6 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>3</sub></b>	C <sub>73</sub> H <sub>120</sub> F <sub>3</sub> N <sub>21</sub> O <sub>15</sub>	1589.9	1592.4 (M+H <sup>+</sup> ), 1614.8 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>2</sub></b>	C <sub>73</sub> H <sub>119</sub> F <sub>3</sub> N <sub>18</sub> O <sub>15</sub>	1546.8	1549.1 (M+H <sup>+</sup> ), 1571.1 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-8R<sub>3</sub><sup>Flu</sup></b>	C <sub>99</sub> H <sub>139</sub> N <sub>23</sub> O <sub>22</sub> S	2036.4	2039.5 (M+H <sup>+</sup> ), 2061.4 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>3</sub><sup>Flu</sup></b>	C <sub>98</sub> H <sub>137</sub> F <sub>3</sub> N <sub>22</sub> O <sub>22</sub> S	2065.4	2068.4 (M+H <sup>+</sup> ), 2090.5 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>2</sub><sup>Flu</sup></b>	C <sub>98</sub> H <sub>136</sub> F <sub>3</sub> N <sub>19</sub> O <sub>22</sub> S	2022.3	2025.7 (M+H <sup>+</sup> ), 2067.8 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12SB<sub>2</sub></b>	C <sub>75</sub> H <sub>121</sub> F <sub>3</sub> N <sub>16</sub> O <sub>15</sub>	1544.9	1546.0 (M+H <sup>+</sup> ), 1568.0 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12SB<sub>3</sub></b>	C <sub>76</sub> H <sub>126</sub> F <sub>3</sub> N <sub>19</sub> O <sub>13</sub>	1571.9	1572.4 (M+H <sup>+</sup> ), 1593.7 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-3SBR<sub>3</sub></b>	C <sub>77</sub> H <sub>128</sub> N <sub>20</sub> O <sub>13</sub>	1499.9	1500.8 (M+H <sup>+</sup> ), 1522.8 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12SB<sub>2</sub><sup>Flu</sup></b>	C <sub>100</sub> H <sub>138</sub> F <sub>3</sub> N <sub>17</sub> O <sub>22</sub> S	2020.4	2021.1 (M+H <sup>+</sup> ), 2044.3 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12SB<sub>3</sub><sup>Flu</sup></b>	C <sub>101</sub> H <sub>143</sub> F <sub>3</sub> N <sub>20</sub> O <sub>20</sub> S	2047.4	2048.9 (M+H <sup>+</sup> ), 2071.9 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-3SB<sub>3</sub><sup>Flu</sup></b>	C <sub>102</sub> H <sub>145</sub> N <sub>21</sub> O <sub>20</sub> S	1976.9	1978.4 (M+H <sup>+</sup> ), 2000.5 (M+Na <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>6</sub>-1</b>	C <sub>73</sub> H <sub>126</sub> F <sub>3</sub> N <sub>29</sub> O <sub>10</sub>	1626.97	1627.0 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>6</sub>-2</b>	C <sub>73</sub> H <sub>126</sub> F <sub>3</sub> N <sub>29</sub> O <sub>10</sub>	1626.97	1627.2 (M+H <sup>+</sup> )
<b><math>\beta</math>NEGR<sub>6</sub></b>	C <sub>63</sub> H <sub>125</sub> N <sub>29</sub> O <sub>10</sub>	1538.98	1538.9 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>6</sub>-1<sup>Flu</sup></b>	C <sub>98</sub> H <sub>143</sub> F <sub>3</sub> N <sub>30</sub> O <sub>17</sub> S	2102.47	2103.1 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>6</sub>-2<sup>Flu</sup></b>	C <sub>98</sub> H <sub>143</sub> F <sub>3</sub> N <sub>30</sub> O <sub>17</sub> S	2102.47	2104.9 (M+H <sup>+</sup> )
<b><math>\beta</math>NEGR<sub>6</sub><sup>Flu</sup></b>	C <sub>88</sub> H <sub>142</sub> N <sub>30</sub> O <sub>17</sub> S	1924.36	1924.8 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>8</sub></b>	C <sub>121</sub> H <sub>213</sub> F <sub>3</sub> N <sub>44</sub> O <sub>23</sub>	2709.26	2709.8 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-3R<sub>8</sub></b>	C <sub>119</sub> H <sub>209</sub> N <sub>45</sub> O <sub>23</sub>	2638.22	2638.4 (M+H <sup>+</sup> )
<b><math>\beta 53</math>-12R<sub>8</sub><sup>Flu</sup></b>	C <sub>146</sub> H <sub>230</sub> F <sub>3</sub> N <sub>45</sub> O <sub>30</sub> S	3184.76	3185.6 (M+H <sup>+</sup> )
<b><math>\beta 533</math>-3R<sub>8</sub><sup>Flu</sup></b>	C <sub>144</sub> H <sub>226</sub> F <sub>3</sub> N <sub>46</sub> O <sub>30</sub> S	3113.72	3113.7 (M+H <sup>+</sup> )



**Figure S1:** Entry of arginine variants into HCT116 cells quantified by flow cytometry after 4h. Mean cellular fluorescence (MCF) was calculated from the histogram of fluorescence intensity and was corrected for background cellular fluorescence by subtracting the geometric mean of cells treated with only PBS. Each value represents the average of three independent trials. Error bars represent the standard error.

