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**Product Data Sheet**


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Product Name: Mca-P-Cha-G-Nva-HA-Dap(DNP)-NH<sub>2</sub>

Cat. No.: GC18513

**Chemical Properties**

Cas. No. 256394-94-2

Chemical Name 1-[2-(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl]-L-prolyl-3-cyclohexyl-L-alanylglycyl-L-norvalyl-L-histidyl-L-alanyl-3-[(2,4-dinitrophenyl)amino]-L-alaninamide

SMILES O=C([C@H]1N(C(CC2=CC(OC3=C2C=CC(OC)=C3)=O)=O)CCC1)N[C@@H](CC4CCCCC4)C(NCC(N[C@@H](CCC)C(N[C@H](C(N[C@H](C(N[C@H](C(N=O)CNC5=C([N+](O-)=O)C=C([N+](O-)=O)C=C5)=O)C)=O)CC6=CNC=N6)=O)=O)=O

Formula C<sub>51</sub>H<sub>65</sub>N<sub>13</sub>O<sub>15</sub>

M.Wt

1100.1

Solubility Soluble in DMSO

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Mca-P-Cha-G-Nva-HA-Dap(DNP)-NH<sub>2</sub> is a fluorogenic substrate for matrix metalloproteinase-1 (MMP-1), MMP-3, and MMP-26. Upon cleavage by MMP-1, MMP-3, or MMP-26, 7-methoxycoumarin-4-acetyl (Mca) is released and its fluorescence can be used to quantify MMP activity. Mca displays excitation/emission maxima of 328/420 nm, respectively.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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