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## Product Data Sheet

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Product Name: Acetyl-Calpastatin (184-210) (human)

Cat. No.: GC12152

**Chemical Properties**

Cas. No. 123714-50-1

SMILES CC[C@@]([C@@])(/N=C(O)/[C@]/N=C(O)/[C@]/N=C(O)/[C@]/N=C(O)/[C@] (/N=C(O)/[C@]/N=C(O)/[C@]1([H])CCCN1C([C@]/N=C(O)/C ([H])CC(O)=O)=O)([H])CCSC)([H])CO)([H])CO)([H])[C@@](O)([H])C ([H])CC2=CC=C(O)C=C2)([H])/C(O)=N/[C@@]/C(O)=N/[C@@] (/C(O)=N/[C@@]/C(O)=N

Formula C<sub>142</sub>H<sub>230</sub>N<sub>36</sub>O<sub>44</sub>S

M.Wt 3177.65

Solubility Soluble to 5 mg/ml in Water

Storage Desiccate 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**

Selective calpain inhibitor. Strongly inhibits calpain I ( $K_i = 0.2$  nM) and II but does not inhibit papain, trypsin and cathepsin L ( $K_i = 6$  μM). Increases secretion of amyloid β-protein (Aβ) 42, Aβ40 and Aβ42 ratio.

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

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