
Product Data Sheet

Product Name: NFF-3
Cat. No.: GC18360

Chemical Properties

Cas. No. 158584-09-9

Chemical Name N2-[2-(7-methoxy-2-oxo-2H-1-benzopyran-4-yl)acetyl]-L-arginyl-L-prolyl-L-lysyl-L-prolyl-L-valyl-L- α -glutamyl-L-norvalyl-L-tryptophyl-L-arginyl-N6-(2,4-dinitrophenyl)-L-lysineamide

SMILES N/A

Formula C₇₈H₁₁₀N₂₂O₂₀ M.Wt 1675.8

Solubility DMF: 25 mg/ml, DMSO: 30 mg/ml, DMSO:PBS(pH 7.2) (1:3): 0.25 mg/ml, Ethanol: slightly soluble 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 sizes: ship with RT, or blue ice upon request.

Structure

Background

NFF-3 is a fluorogenic substrate of matrix metalloproteinases (MMPs). NFF-3 is hydrolyzed rapidly by MMP-3 ($k_{cat}/K_m = 218,000 \text{ s}^{-1} \cdot \text{M}^{-1}$) and slowly by MMP-9 ($k_{cat}/K_m = 10,100 \text{ s}^{-1} \cdot \text{M}^{-1}$) with no significant hydrolysis by MMP-1 or MMP-2. NFF-3 can be used to differentiate MMP-3 activity from that of other MMPs.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA