
Product Data Sheet

Product Name: C3a (70-77) TFA

Cat. No.: GC35575

Chemical Properties

Cas. No.

Formula $C_{37}H_{62}F_3N_{13}O_{12}$

M.Wt 937.96

Solubility Water: 100 mg/mL (106.61 mM)

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

C3a (70-77) TFA (Complement 3a (70-77) TFA) is an octapeptide corresponding to the COOH terminus of C3a, exhibits the specificity and 1 to 2% biologic activities of C3a[1][2].

The direct interaction of C3a(70-77) with human mononuclear leukocytes in culture results in a concentration-dependent inhibition of the generation of LIF evoked by mitogens and by the antigen SK-SD[1]. C3a (70-77) induces histamine release and degranulation of rat mast cells, promotes contraction of guinea pig ileal tissue, and enhances vascular permeability in human skin. C3a (70-77) selectively desensitizes ileal smooth muscle to C3a but not to human C5a, a related anaphylatoxin. The cross-desensitization indicates a specific interaction of C3a (70-77) with cellular C3a binding sites[2].

[1]. Payan DG, et al. Modulation of human lymphocyte function by C3a and C3a(70-77). J Exp Med. 1982 Sep 1;156(3):756-65. [2]. Caporale LH, et al. The active site of C3a anaphylatoxin. J Biol Chem. 1980 Nov 25;255(22):10758-63.

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

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