

Product Data Sheet

Product Name: NF-κB Control

Cat. No.: GC44388

Chemical Properties

Cas. No. 201608-17-5

SMILES [H]N[C@H](C(N[C@H](C(N[C@@H](C(C)C)C(N[C@H](C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N1CCC[C@H]1C(N[C@H](C(N[C@@H](C(C)C)C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@H](C(N[C@@H](CC(C)C)C(N[C@@H](CC(C)C)C(N[C@H](C(N2CCC[C@H]2C(N[C@@H](C(C)C)C(N[C@@H](CCC(N)=O

Formula C₁₂₃H₂₁₅N₃₃O₃₀S M.Wt 2668.3

Solubility DMF: 25 mg/ml, DMSO: 10 mg/ml, Ethanol: 1 mg/ml, PBS (pH 7.2): 1 mg/ml 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 H—Ala—Ala—Val—Ala—Leu—Leu—Pro—Ala—
Val—Leu—Leu—Ala—Leu—Leu—Ala—Pro—Val—
Gln—Arg—Asn—Gly—Gln—Lys—Leu—Met—Pro—OH

Background

NF-κB inhibitor is a synthetic peptide corresponding to the nuclear localization sequence (NLS) of NF-κB p105 subunit (also known as p50) appended to a hydrophobic sequence to facilitate import into living cells. It blocks the nuclear import of p105 in cells treated with activators of NF-κB signaling, including LPS and TNF-α. NF-κB control is a peptide that is identical in sequence to NF-κB inhibitor, except two essential, basic residues of the p105 NLS are substituted with non-basic amino acids. It is ineffective at blocking the activation of NF-κB signaling and is used as a negative control peptide.

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

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