RC-3095 TFA

Cat. No.: HY-P0107A
CAS No.: 1217463-61-0
Molecular Formula: C₅₈H₈₀F₃N₁₅O₁₁
Molecular Weight: 1220.34
Sequence: \{(d-Tpi)-Gln-Trp-Ala-Val-Gly-His-Leu-Leu-NH₂\}
Sequence Shortening: \{(d-Tpi)-QWAVGHLL-NH₂\}
Target: Bombesin Receptor
Pathway: GPCR/G Protein
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
RC-3095 TFA is a bombesin/gastrin releasing peptide receptor (GRPR) antagonist. RC-3095 TFA exerts protective effects by reducing gastric oxidative injury in the arthritic mice.

\textbf{IC₅₀ & Target}
Bombesin receptor; GRPR\textsuperscript{[1]}

\textbf{In Vivo}
RC-3095 impairs aversive but not recognition memory in Wistar male rats\textsuperscript{[1]}. RC-3095 (0.3 mg/kg or 1 mg/kg; S.C.) shows anti-inflammatory effects in 2 experimental models of arthritis, collagen-induced arthritis (CIA) and antigen-induced arthritis (AIA)\textsuperscript{[2]}. Arthritic mice treated with RC-3095 show a significant reduction in the concentrations of IL-17, IL-1, and TNF, and showed a diminished expression of GRPR\textsuperscript{[2]}.

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\textbf{Animal Model:} & Male Balb/c wild-type mice (weighing 18-25 gm) with AIA model; Male DBA/1J inbred mice (weighing 18-25 gm) with CIA model\textsuperscript{[2]} \\
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\textbf{Dosage:} & 1 mg/kg for AIA studies; 0.3 mg/kg or 1 mg/kg for CIA studies \\
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\textbf{Administration:} & Injected SC twice a day for a total of 2 or 10 days for AIA studies; Administered SC twice a day for 10 days after the onset of the disease for CIA studies \\
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\textbf{Result:} & Reduced neutrophil migration, mechanical hypernociception, and proteoglycan loss in mice with AIA; Led to a significant reduction in arthritis clinical scores and the severity of disease in the CIA model. \\
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REFERENCES


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

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