

Product Data Sheet

Product Name: RTIOXA-43

Cat. No.: GC71296

Chemical Properties

Cas. No. 2832067-72-6

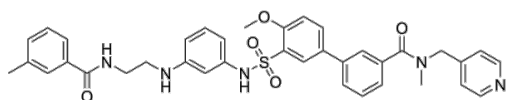
Formula $C_{37}H_{37}N_5O_5S$ M.Wt 663.79

Solubility DMSO : 100 mg/mL (150.65 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

RTIOXA-43 is a orexin receptor agonist with EC₅₀s of 24 nM and 24 nM for OX₂ and OX₁ receptors, respectively.

In adult (12 month) mice, peripheral injection of RTIOXA-43 improves wake time, reduced sleep time

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

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and sleep/wake fragmentation. In addition, RTIOXA-43 improves sleep/wake quality by decreasing the number of episodes and increasing the duration of these episodes^[2].

References:

[1]. Yanan Zhang, et al. Arylsulfoxamides as orexin receptor agonists. WO2022187231A1.

[2]. Kotz, Catherine, et al. Small Molecule Orexin Agonists Enhance Physical Activity, Cognition and Sleep Quality in Aged Mice. Obesity; Silver Spring Vol. 29, (Dec 2021): 163.

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