

NRX-103094

Chemical Properties

CAS No. : 2763260-36-0

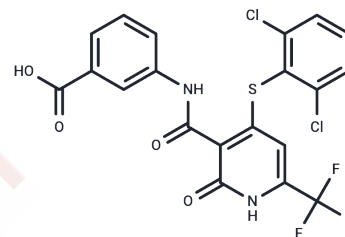
Formula: C₂₀H₁₁Cl₂F₃N₂O₄S

Molecular Weight: 503.28

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|---|
| Description | NRX-103094 is a potent enhancer of the interaction between β -catenin and the homologous E3 ligase SCF β -TrCP, increasing the affinity of pSer33/Ser37 β -catenin for β -TrCP with an EC ₅₀ of 62 nM and a K _d of 0.6 nM. |
| Targets(IC ₅₀) | Molecular Glues,Wnt/beta-catenin |
| In vitro | <p>NRX-103094 demonstrates high potency against the pSer33/Ser37 β-catenin peptide with an EC₅₀ of 457 nM. At 250 nM, NRX-103094 enhances the ubiquitylation of the pSer33/S37A β-catenin peptide to levels surpassing those of the wild-type pSer33/pSer37.[1]</p> <p>NRX-103094 significantly enhances the binding affinity of the S33E/S37A phosphomimetic peptide for β-TrCP, reducing it from >5μM in the absence of the compound to 22nM in the presence of 40μM NRX-103094. In the presence of 20μM NRX-103094, we observe robust, time-dependent ubiquitylation of the S33E/S37A β-catenin peptide. Similarly, when 20μM NRX-103094 is present, the full-length S33E/S37A β-catenin protein undergoes strong ubiquitylation, with ubiquitylation levels approaching those of the WT full-length β-catenin protein.[1]</p> |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 40 mg/mL (79.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 1.987 mL | 9.9348 mL | 19.8697 mL |
| 5 mM | 0.3974 mL | 1.987 mL | 3.9739 mL |
| 10 mM | 0.1987 mL | 0.9935 mL | 1.987 mL |
| 50 mM | 0.0397 mL | 0.1987 mL | 0.3974 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kyle R Simonetta, et al. Prospective discovery of small molecule enhancers of an E3 ligase-substrate interaction. Nat Commun. 2019 Mar 29;10(1):1402.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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