

Product Data Sheet

Product Name: NRX-252114

Cat. No.: GC65919

Chemical Properties

Cas. No. 2763260-39-3

Formula $C_{22}H_{12}Cl_2F_3N_3O_2S$

M.Wt 510.32

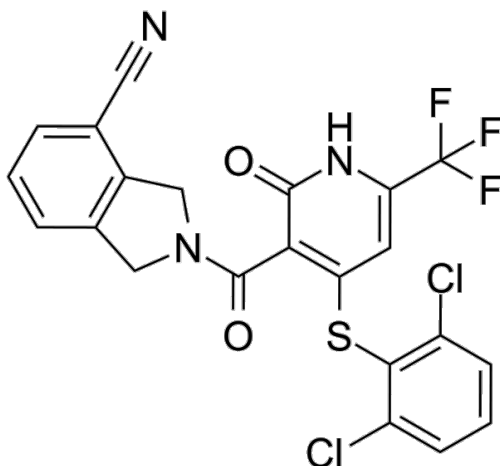
Solubility

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

NRX-252114 is a potent enhancer of the interaction between **β-catenin**, and its cognate **E3 ligase**, SCF^{β-TrCP}. NRX-252114 enhances the binding of pSer33/S37A β-catenin peptide for β-TrCP with an **EC₅₀** of 6.5 nM and a **K_d** of 0.4 nM. NRX-252114 induces mutant β-catenin degradation^[1].

NRX-252114 enhances the binding of pSer33/S37A β-catenin peptide for β-TrCP with >1500-fold cooperativity, surpassing the affinity of wild-type doubly-phosphorylated peptide. NRX-252114 further enhances the ubiquitylation of pSer33/S37A β-catenin peptide to form long ubiquitin chains^[1].

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

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The non-phosphorylated Ser33/Ser37 peptide binds β -TrCP with very weak affinity ($>100 \mu\text{M}$); however, in the presence of $20 \mu\text{M}$ NRX-252114 that binding affinity is enhanced to 180 nM . NRX-252114 also potentiates the ubiquitylation of unphosphorylated Ser33/S37A β -catenin peptides by the SCF β -TrCP complex^[1].

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