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## Product Data Sheet

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Product Name: NRX-2663

Cat. No.: GC64832

### Chemical Properties

Cas. No. 2763260-34-8

Formula C<sub>20</sub>H<sub>13</sub>F<sub>3</sub>N<sub>2</sub>O<sub>5</sub>

M.Wt

418.32

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-2663 is an enhancer of the interaction between  $\beta$ -catenin, and its cognate E3 ligase, SCF $\beta$ -TrCP. NRX-2663 enhances the binding of  $\beta$ -catenin peptide for  $\beta$ -TrCP with an EC<sub>50</sub> of 22.9  $\mu$ M and a K<sub>d</sub> of 54.8 nM[1].

NRX-2663 displays both improved potency in the binding assay with pSer33/Ser37  $\beta$ -catenin (EC<sub>50</sub> of 80  $\mu$ M) and cooperativity of binding (13-fold). NRX-2663 also markedly enhances the ubiquitylation of the pSer33/Ser37  $\beta$ -catenin peptide, with ubiquitin chain formation at ligand concentrations of 16  $\mu$ M and above resembling ubiquitin chain formation on wild-type pSer33/pSer37  $\beta$ -catenin peptide[1].

[1]. 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.

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

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