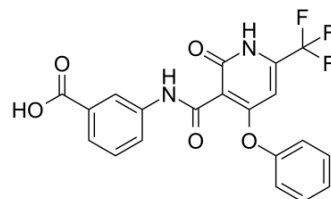


## NRX-2663

Cat. No.:	HY-141448
Molecular Formula:	C <sub>20</sub> H <sub>13</sub> F <sub>3</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	418.32
Target:	β-catenin
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NRX-2663 is an enhancer of the interaction between β-catenin, and its cognate E3 ligase, SCF <sup>β-TrCP</sup> . NRX-2663 enhances the binding of β-catenin peptide for β-TrCP with an EC <sub>50</sub> of 22.9 μM and a K <sub>d</sub> of 54.8 nM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EC <sub>50</sub> : 22.9 μM (β-catenin:β-TrCP Interaction) <sup>[1]</sup> K <sub>d</sub> : 54.8 nM (β-catenin:β-TrCP Interaction) <sup>[1]</sup>
<b>In Vitro</b>	NRX-2663 displays both improved potency in the binding assay with pSer33/Ser37 β-catenin (EC <sub>50</sub> of 80 μM) and cooperativity of binding (13-fold). NRX-2663 also markedly enhances the ubiquitylation of the pSer33/Ser37 β-catenin peptide, with ubiquitin chain formation at ligand concentrations of 16 μM and above resembling ubiquitin chain formation on wild-type pSer33/pSer37 β-catenin peptide <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[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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