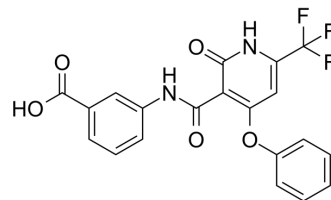


NRX-2663

Cat. No.:	HY-141448		
CAS No.:	2763260-34-8		
Molecular Formula:	C ₂₀ H ₁₃ F ₃ N ₂ O ₅		
Molecular Weight:	418.32		
Target:	β-catenin		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (239.05 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3905 mL	11.9526 mL	23.9051 mL
5 mM	0.4781 mL	2.3905 mL	4.7810 mL
10 mM	0.2391 mL	1.1953 mL	2.3905 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NRX-2663 is an enhancer of the interaction between β-catenin, and its cognate E3 ligase, SCF^{β-TrCP}. NRX-2663 enhances the binding of β-catenin peptide for β-TrCP with an EC₅₀ of 22.9 μM and a K_d of 54.8 nM^[1].

IC₅₀ & Target

EC₅₀: 22.9 μM (β-catenin:β-TrCP Interaction)^[1]
 K_d: 54.8 nM (β-catenin:β-TrCP Interaction)^[1]

In Vitro

NRX-2663 displays both improved potency in the binding assay with pSer33/Ser37 β-catenin (EC₅₀ 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^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA