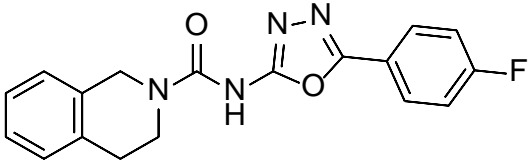


# Product data sheet



MedKoo Cat#: 555763 Name: MBX-4132 CAS: 2286411-30-9 Chemical Formula: C <sub>18</sub> H <sub>15</sub> FN <sub>4</sub> O <sub>2</sub> Exact Mass: 338.1179 Molecular Weight: 338.3424	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

## 1. Product description:

MBX-4132 inhibit trans translation by binding to the bacterial ribosome.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	25.0	73.89

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.96 mL	14.78 mL	29.56 mL
5 mM	0.59 mL	2.96 mL	5.91 mL
10 mM	0.30 mL	1.48 mL	2.96 mL
50 mM	0.06 mL	0.30 mL	0.59 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

Aron ZD, Mehrani A, Hoffer ED, Connolly KL, Srinivas P, Torhan MC, Alumasa JN, Cabrera M, Hosangadi D, Barbor JS, Cardinale SC, Kwasy SM, Morin LR, Butler MM, Opperman TJ, Bowlin TL, Jerse A, Stagg SM, Dunham CM, Keiler KC. trans-Translation inhibitors bind to a novel site on the ribosome and clear *Neisseria gonorrhoeae* in vivo. *Nat Commun.* 2021 Mar 19;12(1):1799. doi: 10.1038/s41467-021-22012-7. PMID: 33741965; PMCID: PMC7979765.

## 7. Bioactivity

Biological target:

MBX-4132, a member of a chemical class called oxadiazoles that inhibit trans translation by binding to the bacterial ribosome.

In vitro activity

TBD

In vivo activity

Here, this study reports optimization of the pharmacokinetic and antibiotic properties of the acylaminooxadiazoles, producing MBX-4132, which clears multiple-drug resistant *Neisseria gonorrhoeae* infection in mice after a single oral dose.

# Product data sheet



Reference: Nat Commun. 2021 Mar 19;12(1):1799. <https://pubmed.ncbi.nlm.nih.gov/33741965/>

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*