Product data sheet

MedKoo

MedKoo Cat#: 530549	
Name: MLS1547	
CAS: 315698-36-3	
Chemical Formula: $C_{19}H_{19}ClN_4O$	
Exact Mass: 354.1247	
Molecular Weight: 354.838	
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:

MLS1547 is a highly efficacious D2 dopamine receptor (D2R) G protein-biased agonist that does not recruit β-arrestin, and is an antagonist of dopamine-stimulated β-arrestin recruitment to the D2 receptor.

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
DMF	20.0	56.36
DMF:PBS (pH 7.2) (1:9)	0.1	0.28
DMSO	26.27	74.03
Ethanol	5.0	14.09

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.82 mL	14.09 mL	28.18 mL
5 mM	0.56 mL	2.82 mL	5.64 mL
10 mM	0.28 mL	1.41 mL	2.82 mL
50 mM	0.06 mL	0.28 mL	0.56 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

TBD

7. Bioactivity

Biological target:

MLS1547 is a highly efficacious G protein-biased dopamine D2 receptor (D2R) agonist (K_i=1.2 μM).

In vitro activity

TBD

In vivo activity

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TBD

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.