

# Product data sheet



MedKoo Cat#: 527457 Name: Olodanrigan sodium CAS: 1316755-17-5 (sodium) Chemical Formula: C <sub>32</sub> H <sub>28</sub> NNaO <sub>5</sub> Exact Mass: 529.1865 Molecular Weight: 529.5678		
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:

Olodanrigan, also known as EMA401, is a novel orally available and highly selective angiotensin II type 2 receptor (AT2R) antagonist.

## 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
TBD	TBD	TBD

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.89 mL	9.44 mL	18.88 mL
5 mM	0.38 mL	1.89 mL	3.78 mL
10 mM	0.19 mL	0.94 mL	1.89 mL
50 mM	0.04 mL	0.19 mL	0.38 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

1. Nozu T, Miyagishi S, Nozu R, Ishioh M, Takakusaki K, Okumura T. EMA401, an angiotensin II type 2 receptor antagonist blocks visceral hypersensitivity and colonic hyperpermeability in rat model of irritable bowel syndrome. *J Pharmacol Sci.* 2021 Jul;146(3):121-124. doi: 10.1016/j.jphs.2021.04.001. Epub 2021 Apr 20. PMID: 34030794.

2. Keppel Hesselink JM, Schatman ME. EMA401: an old antagonist of the AT2R for a new indication in neuropathic pain. *J Pain Res.* 2017 Feb 20;10:439-443. doi: 10.2147/JPR.S128520. PMID: 28255254; PMCID: PMC5325092.

## 7. Bioactivity

Biological target:

Olodanrigan is an angiotensin II type 2 receptor (AT2R) antagonist.

In vitro activity

TBD

In vivo activity

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This study previously demonstrated that losartan, an angiotensin II type 1 (AT1) receptor antagonist prevented these changes, and this study attempted to determine the effects of EMA401, an AT2 receptor antagonist in the current study. EMA401 blocked visceral hypersensitivity and colonic hyperpermeability in these models, and naloxone reversed the effects by EMA401. These results suggest that EMA401 may improve gut function via opioid signaling in IBS.

Reference: J Pharmacol Sci. 2021 Jul;146(3):121-124. <https://pubmed.ncbi.nlm.nih.gov/34030794/>

*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.*