

LG-121071

## Chemical Properties

CAS No. :	179897-70-2
Formula:	C <sub>15</sub> H <sub>15</sub> F <sub>3</sub> N <sub>2</sub> O
Molecular Weight:	296.29
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	LG-121071 is an orally active selective androgen receptor modulator (SARM) with a $K_i$ of approximately 17 nM for the androgen receptor. It is commonly used in studies of androgen receptor-related diseases, such as prostate cancer.
Targets(IC50)	Androgen Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3751 mL	16.8754 mL	33.7507 mL
5 mM	0.675 mL	3.3751 mL	6.7501 mL
10 mM	0.3375 mL	1.6875 mL	3.3751 mL
50 mM	0.0675 mL	0.3375 mL	0.675 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Thevis M, et al. Detection of SARMs in doping control analysis. Mol Cell Endocrinol. 2017 Jan 27.
- Hamann LG, et al. Discovery of a potent, orally active, nonsteroidal androgen receptor agonist: 4-ethyl-1,2,3,4-tetrahydro-6-(trifluoromethyl)-8-pyridono[5,6-g]-quinoline (LG121071). J Med Chem. 1999 Jan 28;42(2):210-2.
- Knoop A, et al. In vitro metabolism studies on the selective androgen receptor modulator (SARM) LG121071 and its implementation into human doping controls using liquid chromatography-mass spectrometry. Eur J Mass Spectrom (Chichester). 2015;21(1):27-36.

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