

DX600

Chemical Properties

CAS No. : 478188-26-0

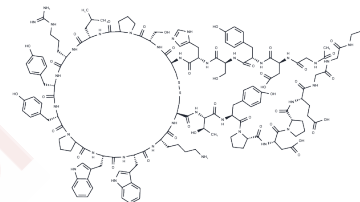
Formula: C141H185N35O40S2

Molecular Weight: 3074.36

Keep away from moisture

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	DX600 is a useful organic compound for research related to life sciences. The catalog number is T35324 and the CAS number is 478188-26-0.
Targets(IC50)	Angiotensin-converting Enzyme (ACE)
In vitro	DX600 is an ACE2 specific inhibitor that does not cross-react with ACE. Three human cell lines (Calu-3, Caco-2, Huh-7) are evaluated for the cell surface expression of ACE2 by flow cytometry and Western blot. Subsequently, whole cell lysates, cell culture supernatant, and live cells are evaluated in the assay. Calu-3 has elevated levels of ACE2 compared to Caco-2 or Huh-7. Calu-3 also demonstrates elevated ACE2 enzymatic activity in all three sources and can be inhibited by DX600.[1]
In vivo	Mouse ACE2-driven Ang-(1-7) formation from Ang II is blocked by MLN-4760 but not by either linear or cyclic DX600. DX600 only blocks human ACE2 activity.[2]
Cell Research	Cell lines: Three human cell lines (Calu-3, Caco-2, Huh-7) Concentrations: 10 µM Incubation Time: 1 h Method: To measure NAb activity against endogenous ACE2, the recombinant ACE2 is replaced by cellular ACE2. 100 µL of cell lysate at 4 mg/mL or same volume of cell culture supernatant is pre-incubated with either PCs at a final concentration of 10 µg/mL, equal volume control serum, DX600, ACE2 specific inhibitor at final concentration of 10 µM, or equal volume of control buffer (PBS) at room temperature for 1 h.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3253 mL	1.6264 mL	3.2527 mL
5 mM	0.0651 mL	0.3253 mL	0.6505 mL
10 mM	0.0325 mL	0.1626 mL	0.3253 mL
50 mM	0.0065 mL	0.0325 mL	0.0651 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

- Karen Liao, et al. J Immunol Methods. 2013 Mar 29;389(1-2):52-60.
Minghao Ye, et al. Hypertension. 2012 Sep;60(3):730-40.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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