

## Braco-19 trihydrochloride

### Chemical Properties

CAS No. : 1177798-88-7

Formula: C<sub>35</sub>H<sub>46</sub>Cl<sub>3</sub>N<sub>7</sub>O<sub>2</sub>

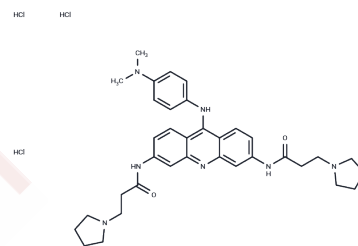
Molecular Weight: 703.14

Storage:

Store at low temperature, Keep away from direct sunlight

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	Braco-19 trihydrochloride (BRACO19 3HCl) is an inhibitor of telomerase and prevents the capping and catalytic action of telomerase. Braco-19 trihydrochloride inhibits HAdV virus replication.
Targets(IC50)	DNA/RNA Synthesis, Telomerase, Virus Protease
In vitro	The IC <sub>50</sub> for BRACO-19 trihydrochloride (1.0-10 μM) in UXF1138L cells is 2.5 μM, the IC <sub>100</sub> is 5 μM. BRACO-19 trihydrochloride (1 μM) dramatically reduces the expression of nuclear hTERT[3]. BRACO-19 trihydrochloride (0-40 μM) dose-dependently decreases the AdV virus growth in eGFP-transfected HEK 293 cells. BRACO-19 trihydrochloride (0-150 μM) decreases band intensity in an increasing concentration-dependent manner[4].
In vivo	In nude mice established UXF1138LX Xenografts, BRACO-19 trihydrochloride (2 mg/kg; i. p.) significantly inhibits tumor growth and shows marked single-agent antitumor activity. some animals in the group shows complete regressions (5 of 12 tumors)[3].

### Solubility Information

Solubility	H <sub>2</sub> O: 19.8 mg/mL (28.16 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.4222 mL	7.111 mL	14.2219 mL
5 mM	0.2844 mL	1.4222 mL	2.8444 mL
10 mM	0.1422 mL	0.7111 mL	1.4222 mL
50 mM	0.0284 mL	0.1422 mL	0.2844 mL

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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

- Fleming AM, et al. Human DNA Repair Genes Possess Potential G-Quadruplex Sequences in Their Promoters and 5'-Untranslated Regions. *Biochemistry*. 2018 Feb 13;57(6):991-1002.
- Machireddy B, et al. Probing the Binding Pathway of BRACO19 to a Parallel-Stranded Human Telomeric G-Quadruplex Using Molecular Dynamics Binding Simulation with AMBER DNA OL15 and Ligand GAFF2 Force Fields. *J Chem Inf Model*. 2017 Nov 27;57(11):2846-2864.
- Angelika M Burger, et al. The G-quadruplex-interactive Molecule BRACO-19 Inhibits Tumor Growth, Consistent With Telomere Targeting and Interference With Telomerase Function. *Cancer Res*. 2005 Feb 15;65(4):1489-96.
- Prativa Majee, et al. Genome-wide Analysis Reveals a Regulatory Role for G-quadruplexes During Adenovirus Multiplication. *Virus Res*. . 2020 Jul 2;283:197960.

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