

EC23

## Chemical Properties

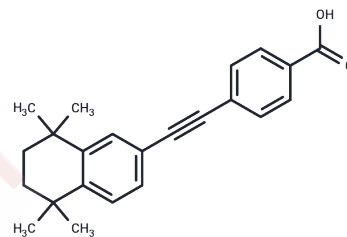
CAS No. : 104561-41-3

Formula: C<sub>23</sub>H<sub>24</sub>O<sub>2</sub>

Molecular Weight: 332.44

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	EC23 (AGN 190205) is a stable synthetic retinoid analogue that induces neuronal differentiation.
Targets(IC50)	Others
In vitro	EC23 induces neural differentiation accompanying by elevated levels of stathmin and profilin-1 and it also induces the expression of known cellular retinoid binding proteins in the TERA2.cl.SP12 cell line[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (752.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.93 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0081 mL	15.0403 mL	30.0806 mL
5 mM	0.6016 mL	3.0081 mL	6.0161 mL
10 mM	0.3008 mL	1.504 mL	3.0081 mL
50 mM	0.0602 mL	0.3008 mL	0.6016 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

Maltman DJ, et al. Proteomic profiling of the stem cell response to retinoic acid and synthetic retinoid analogues: identification of major retinoid-inducible proteins. Mol Biosyst. 2009 May;5(5):458-71.

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