

$\beta$ -Carotene-13C10

## Chemical Properties

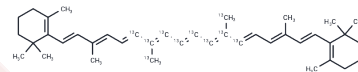
CAS No. : 301150-50-5

Formula: C40H56

Molecular Weight: 546.799

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	$\beta$ -Carotene-13C10 is a form of $\beta$ -Carotene (T1633) labeled with 13C. It is a carotenoid compound and serves as a natural precursor to vitamin A. This compound acts as a regulator of reactive oxygen species (ROS), exhibiting both antioxidant and anti-inflammatory properties. Depending on its intrinsic characteristics and the redox potential of the biological environment, $\beta$ -Carotene (T1633) can function either as an antioxidant or a pro-oxidant. It also possesses anticancer activity, inducing apoptosis in breast cancer cells.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8288 mL	9.1441 mL	18.2882 mL
5 mM	0.3658 mL	1.8288 mL	3.6576 mL
10 mM	0.1829 mL	0.9144 mL	1.8288 mL
50 mM	0.0366 mL	0.1829 mL	0.3658 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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