

Product Datasheet

β-Carotene-13C10 (orb3028691)

Catalog Number	orb3028691
Category	Small Molecules
Description	<p>β-Carotene-13C10 (Provitamin A-13C10) is a form of β-Carotene 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, β-Carotene can function either as an antioxidant or a pro-oxidant. It also possesses anticancer activity, inducing apoptosis in breast cancer cells.</p>
Target	Reactive Oxygen Species, Apoptosis, Endogenous Metabolite
MW	546.799
CAS Number	301150-50-5
Formula	C ₄₀ H ₅₆
SMILES	<chem>C(=C/C(=C/C(=C/[13CH]/[13C])(=[13CH]/[13CH]=[13CH]/[13CH]=[13C])(/[13CH]=C/C=C(/C=C/C=C1C(C)CCCC1C)\C)\[13CH3])/[13CH3])/C\C=2C(C)(C)CCCC2C</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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