

Pentacosane-d₅₂

Cat. No.:	HY-N7494S		
CAS No.:	121578-13-0		
Molecular Formula:	C ₂₅ D ₅₂		
Molecular Weight:	405		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Pentacosane-d ₅₂ is the deuterium labeled Pentacosane[1]. Pentacosane is one of the major components in the acetone extract from Curcuma raktakanda and is also in the essential oil from the leaves of Malus domestica. Pentacosane exhibit anti-cancer activities[2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Shruti Mishra, et al. Curcuma raktakanda Induces Apoptosis and Suppresses Migration in Cancer Cells: Role of Reactive Oxygen Species. Biomolecules. 2019 Apr 23;9(4):159.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA