

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

BACE MedChemExpress

BIOLOGICAL ACTIVITY

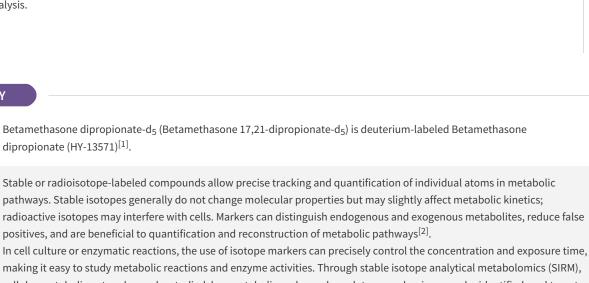
Description

In Vitro

Product Data Sheet

Betamethasone dipropionate-d5

Cat. No.:	HY-13571S1	
Molecular Formula:	C ₂₈ H ₃₂ D ₅ FO ₇	
Molecular Weight:	509.62	
Target:	Glucocorticoid Receptor; Isotope-Labeled Compounds	HO
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	oth



making it easy to study metabolic reactions and enzyme activities. Through stable isotope analytical metabolomics (SIRM), cellular metabolic networks can be studied, key metabolic nodes and regulatory mechanisms can be identified, and targets can be provided for compound development.

Isotope-labeled compounds can be used in competition binding experiments to evaluate the affinity and binding kinetics of compounds to receptors to help optimize design. Stable isotope labels are used as internal standards in mass spectrometry analysis to improve analysis accuracy and reproducibility and reduce matrix effect interference^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo Isotopic labels can non-invasively track the distribution, transformation and clearance of compounds and their metabolites in the body through techniques such as mass spectrometry (MS) and nuclear magnetic resonance (NMR), which is beneficial to the study of pharmacometabolic kinetics (ADME). Isotope labeling can reveal specific steps in metabolic pathways. Using compounds with stable isotope labels at specific locations directly in humans or animal models can also help verify drug mechanisms and evaluate unexpected side effects, improving the accuracy and efficiency of clinical research^[3].

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;53(2):211-216.

[2]. Smith K A, et al. Soil and environmental analysis[M]. Marcel Dekker Incorporated, 2000.

[3]. Fan T W M, et al. Stable isotope-resolved metabolomics and applications for drug development[J]. Pharmacology & therapeutics, 2012, 133(3): 366-391.

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