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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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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

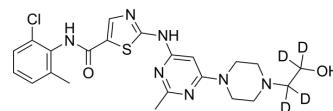
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Dasatinib-d₄

Cat. No.:	HY-10181S1
CAS No.:	1160297-08-4
Molecular Formula:	C ₂₂ H ₂₂ D ₄ ClN ₇ O ₂ S
Molecular Weight:	492.03
Target:	Isotope-Labeled Compounds; Autophagy; Bcr-Abl; Apoptosis; Src
Pathway:	Others; Autophagy; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Dasatinib-d₄ (BMS-354825-d₄) is deuterium labeled Dasatinib. Dasatinib (BMS-354825) is a highly potent, ATP competitive, orally active dual Src/Bcr-Abl inhibitor with potent antitumor activity. The K_is are 16 pM and 30 pM for Src and Bcr-Abl, respectively. Dasatinib inhibits Bcr-Abl and Src with IC₅₀s of <1.0 nM and 0.5 nM, respectively^{[1][2]}. Dasatinib also induces apoptosis and autophagy.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Lombardo LJ, et al. Discovery of N-(2-chloro-6-methyl-phenyl)-2-(6-(4-(2-hydroxyethyl)-piperazin-1-yl)-2-methylpyrimidin-4-ylamino)thiazole-5-carboxamide (BMS-354825), a dual Src/Abl kinase inhibitor with potent antitumor activity in preclinical assays. J Med Chem. 2004 Dec 30;47(27):6658-61.

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