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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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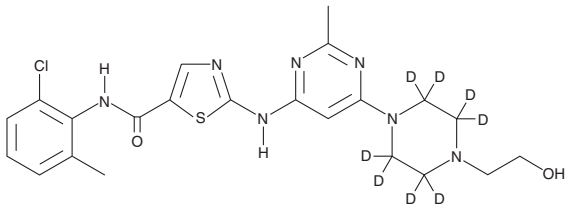
PRODUCT INFORMATION

Dasatinib-d_8

Item No. 22368

CAS Registry No.: 1132093-70-9
Formal Name: N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl-2,2',3,3',5,5',6,6'-d_8]-2-methyl-4-pyrimidinyl]amino]-5-thiazolecarboxamide
Synonym: Sprycel-d_8
MF: $C_{22}H_{18}ClD_8N_7O_2S$
FW: 496.1
Chemical Purity: ≥98% (Dasatinib)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_8); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Dasatinib-d_8 is intended for use as an internal standard for the quantification of dasatinib (Item No. 11498) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Dasatinib-d_8 is supplied as a solid. A stock solution may be made by dissolving the dasatinib-d_8 in the solvent of choice. Dasatinib-d_8 is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas.

Description

Dasatinib is a potent inhibitor of the non-receptor tyrosine kinases Abl and Src as well as other members of the Src family.[1,2] It is effective at sub-nanomolar concentrations, inhibiting Src, Abl, and Lck with IC_{50} values of 0.05, 0.5, and 0.4 nM, respectively.[1,3,4] At nanomolar concentrations, dasatinib also blocks the activity of several other receptor and non-receptor tyrosine kinases, plus drug-resistant mutants.[3,4] Because of these activities, dasatinib has potential therapeutic value in diseases characterized by elevated levels of these kinases, including some forms of cancer and fibrotic disease.[1,5-7]

References

1. Lombardo, L.J., Lee, F.Y., Chen, P., *et al. J. Med. Chem.* **47(27)**, 6658-6661 (2004).
2. Das, J., Chen, P., Norris, D., *et al. J. Med. Chem.* **49(23)**, 6819-6823 (2006).
3. Davis, M.I., Hunt, J.P., Herrgard, S., *et al.* Comprehensive analysis of kinase inhibitor selectivity. *Nat. Biotechnol.* **29(11)**, 1046-1051 (2011).
4. Carter, T.A., Wodicka, L.M., Shah, N.P., *et al. Proc. Natl. Acad. Sci. USA* **102(31)**, 11011-11016 (2005).
5. El-Amm, J., Freeman, A., Patel, N., *et al. Prostate Cancer* **2013**, 1-10 (2013).
6. Distler, J.H.W. and Distler, O. *Rheumatology* **47**, 10-11 (2008).
7. McFarland, K.L. and Wetzstein, G.A. *Cancer Control* **16(2)**, 132-140 (2009).

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