Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

# DATASHEET

(S)-Roscovitine

## Product overview

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|---|---|
| **Name** | (S)-Roscovitine |
| **Cat No** | HB3706 |
| **Purity** | >99% |
| **Description** | Potent, selective CDK1 inhibitor |

## Biological Data

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| **Biological description** | (S)-enantiomer of (R)-roscovitine. Potent selective cyclin-dependent kinase 1 (CDK1) inhibitor. Potential neuroprotectant for stroke. Crosses the blood brain barrier. Inhibits CDK5, consequently blocking hypoxia-induced apoptosis in neurons. Potential anti-inflammatory compound. Potential antidiabetic compound. |

## Solubility & Handling

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| **Solubility overview** | Soluble in DMSO (100 mg/ml) |
| **Storage instructions** | +4°C |
| **Storage of solutions** | Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use. |
| **Shipping Conditions** | Stable for ambient temperature shipping. Follow storage instructions on receipt. |
| **Important** | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

## Chemical Data

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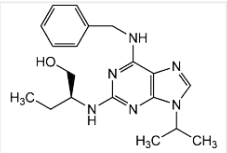
| **Chemical name** | 2-(S)-(1-Ethyl-2-hydroxyethylamino)-6-benzylamino-9-isopropylpurine |
| **Molecular Weight** | 354.5 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{19}H_{26}N_6O$ |
| **CAS Number** | 186692-45-5 |
| **PubChem identifier** | 6603989 |
| **SMILES** | CC[C@@H](CO)NC1=NC(=C2C(=N1)N(C=N2)C(C)C)NCC3=CC=CC=C3 |
| **InChi** | InChI=1S/C19H26N6O/c1-4-15(11-26)22-19-23-17(20-10-14-8-6-5-7-9-14)16-18(24-19)25(12-21-16)13(2)3/h5-9,12-13,15,26H,4,10-11H2,1-3H3,(H2,20,22,23,24)/t15-/m0/s1 |
| **InChiKey** | BTIHMVBBUGXLCJ-HNNXBMFYSA-N |
| **Appearance** | White to off-white solid |