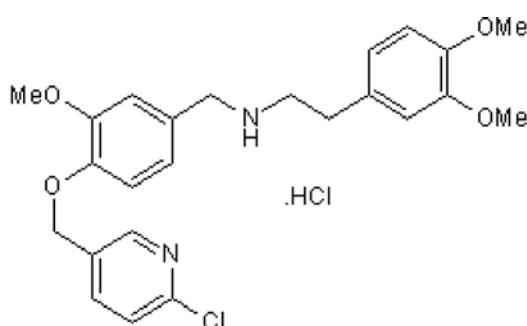


Certificate of Analysiswww.tocris.com**Product Name:** SBE 13 hydrochloride**Catalog No.:** 4292**Batch No.:** 1

CAS Number: 1052532-15-6

IUPAC Name: *N*-[[4-[(6-Chloro-3-pyridinyl)methoxy]-3-methoxyphenyl]methyl]-3,4-dimethoxybenzeneethanamine hydrochloride**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₄H₂₇CIN₂O₄.HCl**Batch Molecular Weight:** 479.4**Physical Appearance:** White solid**Solubility:** water to 10 mM with gentle warming
DMSO to 100 mM
ethanol to 10 mM with gentle warming**Storage:** Desiccate at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.8% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	60.13	5.89	5.84	14.79
Found	60.13	5.96	5.89	14.89

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Catalog No.: 4292

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CAS Number: 1052532-15-6

IUPAC Name: N-[4-[(6-Chloro-3-pyridinyl)methoxy]-3-methoxyphenyl]methyl]-3,4-dimethoxybenzeneethanamine hydrochloride

Description:

Selective inhibitor of PLK1 (IC₅₀ values are 200 pM, 875 nM and 66 μM for PLK1, PLK3 and PLK2 respectively). Exhibits no effect on Aurora kinase A activity. Binds and stabilizes the inactive form of PLK1. Delays cell cycle progression, reduces cell proliferation and induces apoptosis in a range of human cancer cell lines. Transiently arrests cells cycle at G₀/G₁ in primary cells.

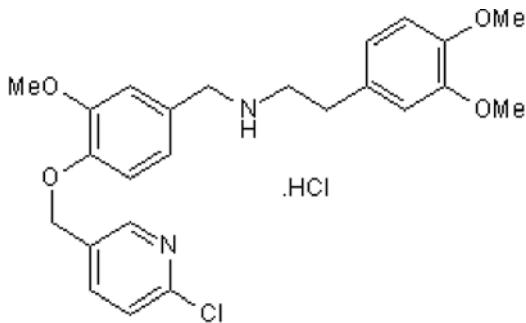
Physical and Chemical Properties:

 Batch Molecular Formula: C₂₄H₂₇CIN₂O₄.HCl

Batch Molecular Weight: 479.4

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

References:

Keppner et al (2011) Fate of primary cells at the G₁/S boundary after Polo-like kinase 1 inhibition by SBE13. *Cell Cycle* **10** 708. PMID: 21301227.

Eckerdt (2010) Freezing Polo in its sleep: targeting the inactive conformation of Polo-like kinase 1 in cancer cells. *Cell Cycle* **9** (5) 862. PMID: 20348843.

Keppner et al (2010) Biological impact of freezing Plk1 in its inactive conformation in cancer cells. *Cell Cycle* **9** 761. PMID: 20139717.

Liu (2010) SBE13 joins the family of Polo-like kinase 1 (Plk1) inhibitors. *Cell Cycle* **9** 445. PMID: 20130451.

Keppner et al (2009) Identification and validation of a potent type II inhibitor of inactive polo-like kinase 1. *ChemMedChem* **4** 1806. PMID: 19746360.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 mM with gentle warming

DMSO to 100 mM

ethanol to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

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