

# Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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## SZABO-SCANDIC HandelsgmbH

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# **PRODUCT** INFORMATION SCH 900776



Item No. 18131

891494-63-6	
6-bromo-3-(1-methyl-1H-	NH <sub>2</sub>
pyrazol-4-yl)-5-(3R)-3-piperidinyl- pyrazolo[1,5-a]pyrimidin-7-amine	Br
MK-8776	
C <sub>15</sub> H <sub>18</sub> BrN <sub>7</sub>	H_N_
376.3	
≥95%	
≥2 years at -20°C	$\sim$
A crystalline solid	N N
λ <sub>max</sub> : 209, 241, 309, 342 nm	
	891494-63-6 6-bromo-3-(1-methyl-1H- pyrazol-4-yl)-5-(3R)-3-piperidinyl- pyrazolo[1,5-a]pyrimidin-7-amine MK-8776 $C_{15}H_{18}BrN_7$ 376.3 $\geq$ 95% $\geq$ 2 years at -20°C A crystalline solid $\lambda_{max}$ : 209, 241, 309, 342 nm

#### Laboratory Procedures

For long term storage, we suggest that SCH 900776 be stored as supplied at -20°C. It should be stable for at least two years.

SCH 900776 is supplied as a crystalline solid. A stock solution may be made by dissolving the SCH 900776 in the solvent of choice. SCH 900776 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of SCH 900776 in these solvents is approximately 3, 20, and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of SCH 900776 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of SCH 900776 in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Checkpoint kinase 1 (Chk1) regulates S and  $G_2$ -M phase cell cycle checkpoints in response to DNA damage. SCH 900776 is a functionally selective inhibitor of Chk1 ( $K_d = 2 \text{ nM}$ ;  $IC_{50} = 3 \text{ nM}$ ).<sup>1</sup> In comparison, 18-fold and 500-fold higher concentrations of this compound are required to inhibit CDK2 and Chk2.1 At 5-50 mg/kg, SCH 900776 dose-dependently interacts synergistically with DNA antimetabolite agents in vitro and in vivo to selectively induce double-strand DNA breaks and cell death in tumor cells.<sup>1</sup>

#### Reference

1. Guzi, T.J., Paruch, K., Dwyer, M.P., et al. Targeting the replication checkpoint using SCH 900776, a potent and functionally selective CHK1 inhibitor identified via high content screening. Mol. Cancer Ther. 10(4), 591-602 (2011).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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