

## Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

#### SZABO-SCANDIC HandelsgmbH

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# **PRODUCT** INFORMATION



**URMC-099** 

Item No. 19147

CAS Registry No.: Formal Name:	1229582-33-5 3-(1H-indol-5-yl)-5-[4-[(4-methyl- 1-piperazinyl)methyl]phenyl]-1H- pyrrolo[2,3-b]pyridine		
MF:	$C_{27}H_{27}N_5$		
FW:	421.5		$\sim$
Purity:	≥95%		N
UV/Vis.:	λ <sub>max</sub> : 211, 244, 267 nm		/
Supplied as:	A crystalline solid	N	
Storage:	-20°C		
Stability:	As supplied, 2 years from the QC stored properly	date provided on the Certi	ficate of Analysis, when

#### Laboratory Procedures

URMC-099 is supplied as a crystalline solid. A stock solution may be made by dissolving the URMC-099 in the solvent of choice. URMC-099 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of URMC-099 in ethanol is approximately 1 mg/ml and approximately 25 mg/ml in DMSO and DMF.

URMC-099 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, URMC-099 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. URMC-099 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

#### Description

URMC-099 is an orally bioavailable, brain-penetrant inhibitor of mixed-lineage kinases (MLKs) with IC<sub>50</sub> values of 19, 42, 14, and 150 nM for MLK1, MLK2, MLK3, and the related MLK family member DLK, respectively.<sup>1</sup> It also inhibits LRRK2 activity with an IC<sub>50</sub> value of 11 nM.<sup>1</sup> In vitro, URMC-099 has been shown to reduce inflammatory cytokine production by HIV-1 Tat-exposed microglia and to prevent destruction and phagocytosis of cultured neuronal axons by these cells.<sup>2</sup> In rodent models of HIV-associated neurocognitive disorders, URMC-099 demonstrates anti-inflammatory and neuroprotective effects.<sup>2</sup>

#### References

- 1. Quadro, L., Blaner, W.S., Salchow, D.J., et al. Impaired retinal function and vitamin A availability in mice lacking retinol-binding protein. EMBO J. 18(17), 4633-44 (1999).
- 2. Marker, D.F., Tremblay, M.-É., Puccini, J.M., et al. The new small-molecule mixed-lineage kinase 3 inhibitor URMC-099 is neuroprotective and anti-inflammatory in models of human immunodeficiency virus-associated neurocognitive disorders. J. Neurosci. 33(24), 9998-10010 (2013).

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

#### SAFFTY DATA

al 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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