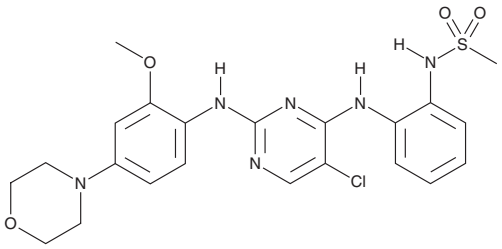
PRODUCT INFORMATION

CZC-54252

Item No. 17998

CAS Registry No.:	1191911-27-9
Formal Name:	N-[2-[[5-chloro-2-[[2-methoxy-4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]amino]phenyl]-methanesulfonamide
MF:	$C_{22}H_{25}ClN_6O_4S$
FW:	505.0
Purity:	≥98%
UV/Vis.:	λ_{max}: 282 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

CZC-54252 is supplied as a crystalline solid. A stock solution may be made by dissolving the CZC-54252 in the solvent of choice, which should be purged with an inert gas. CZC-54252 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of CZC-54252 in these solvents is approximately 10 and 20 mg/ml, respectively.

CZC-54252 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CZC-54252 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CZC-54252 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

CZC-54252 is an inhibitor of leucine-rich repeat kinase 2 (LRRK2; IC_{50}s = 1.28 and 1.85 nM for wild-type and G2019S mutant forms of LRRK2, respectively).[1] It has been shown to protect against neuronal injury induced by Parkinson's disease-related LRRK2-G2019S mutant activity in primary human neurons with an EC_{50} value of 1 nM.[2]

References

1. Kramer, T.T., Monte, F.L., Göring, S., *et al.* Small molecule kinase inhibitors for LRRK2 and their application to Parkinson's disease models. *ACS Chem. Neurosci.* **3(3)**, 151-160 (2012).
2. Ramsden, N.G., Perrin, J., Ren, Z., *et al.* Chemoproteomics-based design of potent LRRK2-selective lead compounds that attenuate Parkinson's disease-related toxicity in human neurons. *ACS Chem Biol.* **6(10)**, 1021-1028 (2011).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM