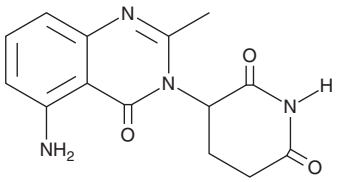
PRODUCT INFORMATION

CC-122

Item No. 26257

CAS Registry No.:	1015474-32-4
Formal Name:	3-(5-amino-2-methyl-4-oxo-3(4H)-quinazolinyl)-2,6-piperidinedione
Synonym:	Avadomide
MF:	$C_{14}H_{14}N_4O_3$
FW:	286.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 239, 358 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

CC-122 is supplied as a crystalline solid. A stock solution may be made by dissolving the CC-122 in the solvent of choice, which should be purged with an inert gas. CC-122 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CC-122 in these solvents is approximately 30 mg/ml.

CC-122 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CC-122 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CC-122 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CC-122 is a pleiotropic pathway modifier with anticancer activity.[1] It binds to cereblon, a substrate receptor protein of the Cullin 4 RING E3 ubiquitin ligase complex, in U266 multiple myeloma cell extracts and induces recruitment and degradation of the cereblon substrates Aiolos and Ikaros in TMD8, OCI-LY10, and Karpas 422 diffuse large B cell lymphoma (DLBCL) cells when used at concentrations of 0.1, 1, and 10 µM. CC-122 (0.1-10,000 nM) decreases proliferation and induces apoptosis in activated B cell (ABC) and germinal center B cell (GCB) DLBCL cell lines. It also stimulates IL-2 production in mouse primary T cells. CC-122 (30 mg/kg) decreases tumor levels of Aiolos and Ikaros and reduces tumor growth in OCI-LY10 ABC DLBCL and WSU-DLCL2 GCB DLBCL mouse xenograft models.

Reference

1. Hagner, P.R., Man, H.-W., Fontanillo, C., *et al.* CC-122, a pleiotropic pathway modifier, mimics an interferon response and has antitumor activity in DLBCL. *Blood* **126(6),** 779-789 (2015).

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