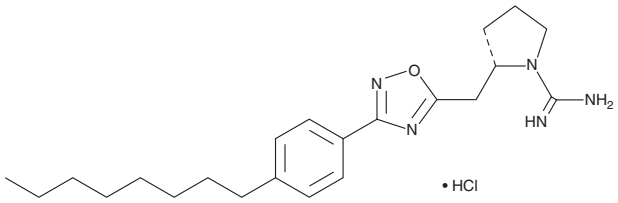
PRODUCT INFORMATION

SLP7111228 (hydrochloride)

Item No. 23290

CAS Registry No.:	1449768-48-2
Formal Name:	(2S)-2-[[3-(4-octylphenyl)-1,2,4-oxadiazol-5-yl]methyl]-1-pyrrolidinecarboximidamide, monohydrochloride
MF:	$C_{22}H_{33}N_5O \bullet HCl$
FW:	420.0
Purity:	≥95%
UV/Vis.:	λ_{max}: 249 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

SLP7111228 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the SLP7111228 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. SLP7111228 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of SLP7111228 (hydrochloride) in ethanol and DMSO is approximately 30 mg/ml and approximately 12.5 mg/ml in DMF.

SLP7111228 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SLP7111228 (hydrochloride) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SLP7111228 (hydrochloride) has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

SLP7111228 is a potent and selective inhibitor of sphingosine kinase (SPHK) 1 with K_i values of 0.048 and >10 µM for SPHK1 and 2, respectively.[1] It induces a concentration-dependent decrease in sphingosine-1-phosphate (S1P; Item No. 62570) in U937 cells but has no effect on sphingosine levels. *In vivo*, SLP7111228 decreases blood levels of S1P in a dose-dependent manner in rats.

Reference

1. Patwardhan, N.N., Morris, E.A., Kharel, Y., *et al.* Structure-activity relationship studies and in vivo activity of guanidine-based sphingosine kinase inhibitors: Discovery of SphK1- and SphK2-selective inhibitors. *J. Med. Chem.* **58(4)**, 1879-1899 (2015).

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