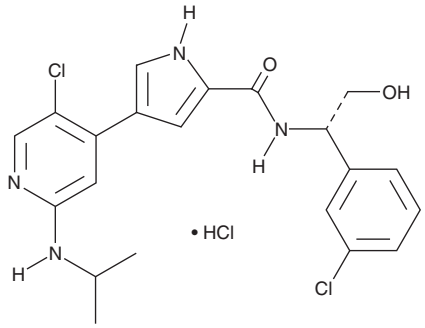
PRODUCT INFORMATION

Ulixertinib (hydrochloride)

Item No. 18298

CAS Registry No.:	1956366-10-1
Formal Name:	4-[5-chloro-2-[(1-methylethyl)amino]-4-pyridinyl]-N-[(1S)-1-(3-chlorophenyl)-2-hydroxyethyl]-1H-pyrrole-2-carboxamide, monohydrochloride
Synonyms:	BVD-523, VRT-752271
MF:	$C_{21}H_{22}Cl_2N_4O_2$ • HCl
FW:	469.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 213, 252, 326 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

Ulixertinib (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the ulixertinib (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Ulixertinib (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of ulixertinib (hydrochloride) in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

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

Description

Ulixertinib is a reversible ERK1/2 inhibitor that demonstrates an IC_{50} value of <0.3 nM for ERK2.[1] In A375 melanoma cells with B-Raf^{V600E} mutation, it has been reported to reduce the levels of phosphorylated ERK2 and the downstream kinase RSK (IC_{50}s = 4.1 and 0.14 µM, respectively).[1] Ulixertinib has also been shown to inhibit A375 cell proliferation with an IC_{50} value of 180 nM.[1]

Reference

1. Ward, R.A., Colclough, N., Challinor, M., *et al*. Structure-guided design of highly selective and potent covalent inhibitors of ERK1/2. *J. Med. Chem.* **58(11)**, 4790-4801 (2015).

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