

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: C₂₁H₂₂Cl₂N₄O₂ • HCl

FW: 469.8

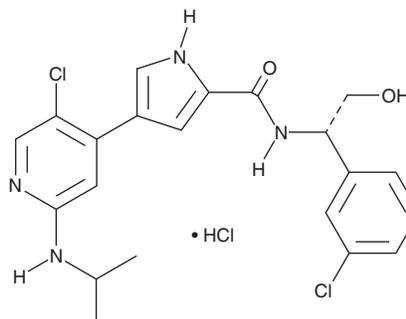
Purity: ≥98%

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 IC₅₀ 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 (IC₅₀s = 4.1 and 0.14 μM, respectively).¹ Ulixertinib has also been shown to inhibit A375 cell proliferation with an IC₅₀ 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).

WARNING

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

SAFETY DATA

This material 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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