

Zampilimab

Chemical Properties

CAS No. : 2098280-42-1

Formula:

Molecular Weight:

Storage: Store at low temperature
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zampilimab (UCB-7858) is a humanised monoclonal antibody targeting TGM2, which binds to and inhibits the cross-linking transamidase activity of TG2, and is used to improve renal fibrosis.
Targets(IC50)	Glutaminase
In vitro	<p>Methods: A renal tubular interstitial fibrosis model was established by treating primary human RPTEC cells with TGF-β1. Extracellular TG2 activity was measured using a biotin-cadaverine incorporation assay, and the inhibitory effect of Zampilimab was evaluated across four independent experiments.</p> <p>Results: Zampilimab significantly inhibited extracellular TG2 activity and reduced ECM accumulation, with an IC₅₀ of 119 nM, indicating strong anti-fibrotic potential. [1]</p>
In vivo	<p>Methods: In a cynomolgus monkey model of chronic kidney disease induced by unilateral ureteral obstruction (UUO), Zampilimab was administered intravenously at doses of 10-50 mg/kg once weekly for 21 days to evaluate its effects on in situ TG2 activity and renal fibrosis.</p> <p>Results: Zampilimab treatment effectively reduced in situ TG2 activity in kidney tissue and alleviated renal fibrosis.</p>

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