Product Data Sheet

Product Name: Rimtuzalcap
Cat. No.: GC63482

Chemical Properties

Cas. No.	2167246-24-2		
Formula	$C_{18}H_{24}F_2N_6O$	M.Wt	378.42
Solubility	DMSO : 250 mg/mL (660.64 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Rimtuzalcap		

Background

Rimtuzalcap (CAD-1883) is a first-in-class selective positive allosteric modulator of small-conductance calcium-activated potassium channels (SK channels). Rimtuzalcap can be used for the research of movement disorders including essential tremor (ET) and spinocerebellar ataxia (SCA)[1].

Rimtuzalcap (Compound 1) is a small molecule modulator of potassium ion channels showing great therapeutic potential for treating a variety of diseases characterized by dysfunction of potassium ion channels and dysfunction from other causes which influence these potassium channels[1].

Rimtuzalcap (CAD-1883) reduces the firing rate of Purkinje cells by approximately 40%, consistent with the anticipated therapeutic mechanism of positive allosteric modulation of SK channels. Sequential bath application of 1 or 3 μM CAD-1883 results in a partial reversal of the increased coefficient of variation of the interspike interval which is seen in cerebellar slices from 11-month-old spinocerebellar ataxia-2 58Q mice[1].

[1]. Crystalline forms of potassium channel modulators. WO2020086456A1.

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