Product Data Sheet

Product Name: SEN177
Cat. No.: GC68363

Chemical Properties

Cas. No.	2117405-13-5		
Formula	$C_{18}H_{19}FN_6$	M.Wt	338.38
Solubility	DMSO : 33.33 mg/mL (98.50 mM; Need ultrasonic)	Storage	Store at -20°C
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	SEN177		

Background

SEN177 is a potent **glutaminyl cyclase (QPCT)** inhibitor with an $\mathbf{IC_{50}}$ of 0.013μM for glutaminyl-peptide cyclotransferase-like (QPCTL). SEN177 has a $\mathbf{K_i}$ of 20 nM for human glutaminyl cyclase (hQC). SEN177 greatly reduces the early stages of mutant HTT oligomerisation and reduces the percentage of neurons with Q80 aggregates. SEN177 has the potential for Huntington's disease research[1].

[1]. Meike E W Logtenberg, et al. Glutaminyl cyclase is an enzymatic modifier of the CD47- SIRPα axis and a target for cancer immunotherapy. Nat Med
[2]. Cecilia Pozzi, et al. The structure of the human glutaminyl cyclase-SEN177 complex indicates routes for developing new potent inhibitors as possible agents for the treatment of neurological disorders. J Biol Inorg Chem. 2018 Dec;23(8):1219-1226.
[3]. Maria Jimenez-Sanchez, et al. siRNA screen identifies QPCT as a druggable target for Huntington's disease. Nat Chem Biol. 2015 May;11(5):347-354.

Caution: Product has not been fully validated for medical applications. For research use only.
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