
Product Data Sheet

Product Name: XEN445
Cat. No.: GC10248

Chemical Properties

Cas. No. 1515856-92-4

Chemical Name (S)-2-(3-(pyridin-2-ylmethoxy)pyrrolidin-1-yl)-5-(trifluoromethyl)benzoic acid

SMILES FC(F)(F)C1=CC(C(O)=O)=C(N2CC[C@@](OCC3=CC=CC=N3)([H])C2)C=C1

Formula $C_{18}H_{17}F_3N_2O_3$ M.Wt 366.33

Solubility DMF: 30 mg/ml, DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml, DMSO: 25 mg/ml, Ethanol: 14 mg/ml
Store Storage at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure

Background

XEN445 is a novel, highly selective and potent inhibitor of endothelial lipase (EL) with an IC₅₀ value of 0.237 μM [1].

In vitro, XEN445 has been reported to selectively inhibit EL with IC₅₀ values of 0.237 μM, 20 μM and 9.5 μM for hEL, hLPL and hHL, respectively. In addition, XEN445 has been revealed to suppress EL in EL-transfected HEK cells with an IC₅₀ value of 0.25 μM which is very similar to that tested in cell-free assay. Besides, XEN445 has shown significantly high oral bioavailability and low clearance rates in C57BL6 mice. In vivo, XEN445 has been evidenced to increase plasma HDLc in wild-type mice. Moreover, XEN445 has exhibited the HDL-raising effect because of on-target inhibition by using the EL knockout mice [1].

References:

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

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[1] Sun S1, Dean R, Jia Q, Zenova A, Zhong J, Grayson C, Xie C, Lindgren A, Samra P, Sojo L, van Heek M, Lin L, Percival D, Fu JM, Winther MD, Zhang Z. Discovery of XEN445: a potent and selective endothelial lipase inhibitor raises plasma HDL-cholesterol concentration in mice. *Bioorg Med Chem*. 2013 Dec 15;21(24):7724-34.

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