

Product Data Sheet

Product Name: ARN726
Cat. No.: GC45386

Chemical Properties

Cas. No. 1628343-77-0

Chemical Name N-[(3S)-2-oxo-3-azetidinyl]-carbamic acid, 4-cyclohexylbutyl ester

SMILES O=C(N[C@H]1CNC1=O)OCCCCC2CCCCC2

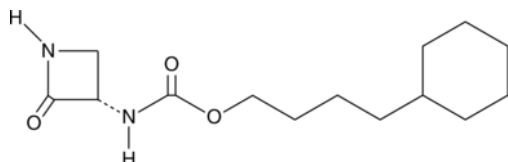
Formula C14H24N2O3 M.Wt 268.4

Solubility DMF: 33 mg/ml, DMSO: 33 mg/ml, Ethanol: 33 mg/ml, Ethanol: PBS (pH 7.2) (1:4): 0.20 mg/ml
Storage Store 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 size: ship with RT, or blue ice upon request.

Structure



Background

ARN726 is an inhibitor of N-acyl ethanolamine acid amidase (NAAA; IC₅₀s = 27 and 63 nM for the human and rat enzyme, respectively).¹ It is selective for NAAA over fatty acid amide hydrolase (FAAH) and acid ceramidase (IC₅₀s = >100 and 12.5 μM, respectively), as well as a panel of 28 lipid metabolism- and inflammation-related enzymes at 10 μM. ARN726 (1-30 mg/kg) decreases lung myeloperoxidase activity and pleural exudate TNF-α levels in a mouse model of carrageenan-induced lung inflammation. It inhibits NAAA and reverses complete Freund's adjuvant-induced decreases in palmitoyl ethanolamide and oleoyl ethanolamide levels in inflamed paw tissue in a rat model of arthritis.²

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

References

1. Ribeiro, A., Pontis, S., Mengatto, L., et al. . Chem. Biol. 10, 1838-1846 (2015).
2. Bonezzi, F.T., Sasso, O., Pontis, S., et al. An important role for N-acylethanolamine acid amidase in the complete Freund's adjuvant rat model of arthritis. J. Pharmacol. Exp. Ther. 356(3), 656-663 (2016).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA