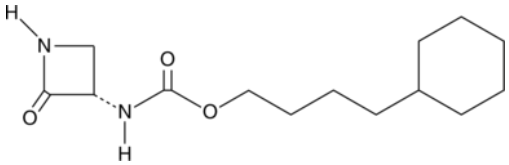
# Product Data Sheet

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-acylethanolamine 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.***
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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).

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