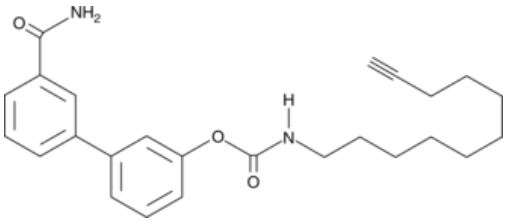
Product Data Sheet

Product Name: JP104
Cat. No.: GC40864

Chemical Properties

Cas. No.	887264-45-1		
SMILES	CCCCCCCCCCCNC(=O)Oc1cccc(c1)c1cccc(c1)C(=O)N		
Formula	C25H30N2O3	M.Wt	406.5
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,DMSO:PBS (pH 7.2) (1:2): .25 mg/ml,Ethanol: 1 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

The enzyme, fatty acid amide hydrolase (FAAH), is widely expressed in brain and other tissues, and is capable of hydrolyzing anandamide (AEA) and other simple esters and amides with long unsaturated acyl chains. JP104 is an irreversible fatty acid amide hydrolase (FAAH) inhibitor of the carbamate class with an IC50 of 7.3 nM for the human recombinant enzyme when tested using radiolabeled oleamide as the substrate. The alkyl derivative on JP104 reacts with azide-modified reporter tags, such as azido-rhodamine or azido-biotin, for visualization of JP104 bound to FAAH in vivo.

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