

Product Data Sheet

Product Name: AZD 5462

Cat. No.: GC91615

Chemical Properties

Cas. No. 2787501-83-9

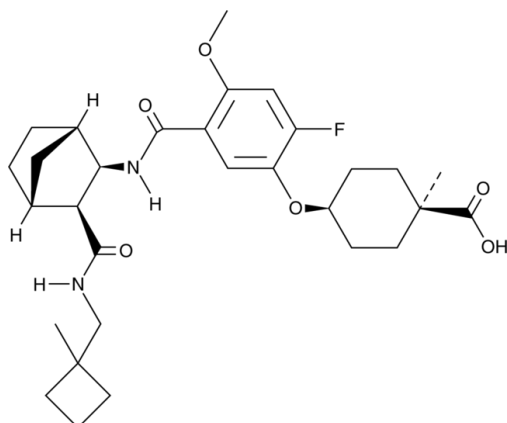
Formula $C_{30}H_{41}FN_2O_6$ M.Wt 544.7

Solubility Acetonitrile: Slightly Soluble: 0.1-1 mg/ml, DMSO: Sparingly Soluble: 1-10 mg/ml Storage -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

AZD 5462 is an agonist of relaxin family peptide receptor 1 (RXFP1).^[1] It induces cAMP mobilization

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

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in HEK293 cells expressing the human RXFP1 ($EC_{50} = 15.85$ nM). AZD 5462 increases heart rate and mean arterial blood pressure (MABP) in rats. It increases left ventricular ejection fraction (LVEF) in a cynomolgus monkey model of heart failure induced by a high-fat diet and age when administered at doses of 1 or 10 mg/kg per day.

References:

[1].Granberg, K.L., Sakamaki, S., Larsson, N., et al.Discovery of clinical candidate AZD5462, a selective oral allosteric RXFP1 agonist for treatment of heart failureJ. Med. Chem.67(6)4419-4441(2024).

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