Web: www.taiclone.com
Tel: +886-2-2735-9682
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AZD7986

Catalog No: tcsc0020766

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1802148-05-5

Formula:
$C_{23}H_{24}N_4O_4$

Pathway:
Metabolic Enzyme/Protease

Target:
Dipeptidyl Peptidase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
INS 1007

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Observed Molecular Weight:
420.46

Product Description

AZD7986 is a **Dipeptidyl peptidase 1** (**DPP1**) inhibitor with **pIC$_{50}$**s of 6.85, 7.6, 7.7, 7.8, and 7.8 in human, mouse, rat, dog and rabbit, respectively.

IC50 & Target: pIC50: 6.85 (human DPP1), 7.6 (mouse DPP1), 7.7 (rat DPP1), 7.8 (dog DPP1), 7.8 (rabbit DPP1)[1]

In Vitro: Results from cell assay show that AZD7986 is a Dipeptidyl peptidase 1 (DPP1) inhibitor with pIC$_{50}$s of 6.85, 7.6, 7.7, 7.8, and 7.8 in human, mouse, rat, dog and rabbit, respectively. AZD7986 is stable in the propionaldehyde reactivity assay, with a half-life over 50 h. After differentiation in the presence of AZD7986 (38 pM to 10 μM), concentration-dependent decreases in cell lysate enzyme activity are observed for DPP1, as well as for all of the three NSPs, NE, Pr3, and CatG. AZD7986 inhibits activation of all three NSPs in a concentration dependent manner, with pIC$_{50}$ values of around 7 for all three NSPs. The reduction of the activities is almost complete, with NE, Pr3, and CatG activities reduced to 4 to 10% of control at 10 μM AZD7986[1].

In Vivo: AZD7986 shows good stability in plasma, with a half life of >10 h. AZD7986 inhibits activation of NE and Pr3, but not CatG, in bone marrow cell lysates in a dose dependent manner *in vivo*[1].