Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

# Saxagliptin (hydrate)

## Catalog No: tcsc3250

### Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
945667-22-1

**Formula:**
$C_{18}H_{27}N_3O_3$

**Pathway:**
Metabolic Enzyme/Protease

**Target:**
Dipeptidyl Peptidase

**Purity / Grade:**
>98%

**Solubility:**
10 mM in DMSO

**Alternative Names:**
BMS-477118 hydrate

**Observed Molecular Weight:**
333.43

## Product Description

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Saxagliptin H2O(BMS477118 H2O) is a selective and reversible DPP4 inhibitor with IC50 of 26 nM and Ki of 1.3 nM.

IC50 value: 26 nM [1]

Target: DPP4

in vitro: Saxagliptin has an inhibition constant Ki of 1.3 nM for DPP4 inhibition, which is 10-fold more potent than either vildagliptin or sitagliptin (another two DPP4 inhibitors) with Ki of 13 and 18 nM. In addition, Saxagliptin demonstrates greater specificity for DPP4 than for either the DPP8 or DPP9 enzymes (400- and 75- fold, respectively). The active metablite of saxagliptin is two-fold less potent than the parent. Both Saxagliptin and its metabolite are highly selective (>4000-fold) for the prevention of DPP4 compared with a range of other proteases (selectivity of sitagliptin and vildagliptin for DPP4 is >2600 and
in vivo: Saxagliptin is highly effective at eliciting marked dose-dependent enhancements in glucose clearance in the dose range 0.13-1.3 mg/kg in ob/ob mice relative to controls. Saxagliptin dose-dependently elevate plasma insulin significantly at 15 min post-oGTT, with concomitant improvement in the glucose clearance curves at 60 min post-oGTT [4].